
MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1880

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
1	21 Androm. α (<i>Alpherat</i>) ..	2.1	...	0	2	11.15	61	34	20.0	3	0.89
2	88 Pegasi γ (<i>Algenib</i>) ...	3.0	...	0	7	3.40	75	28	59.7	7	0.86
3	8 Ceti ι	3.6	...	0	13	18.72	99	29	20.7	9	0.91
4	12 Ceti	6.2	...	0	23	54.82	94	37	14.6	8	0.91
5	Taylor 120	6.0	1	0	24	37.53	138	52	32.3	2	0.78
6	14 Cassiopeiæ λ	4.8	...	0	25	9.25	36	8	22.7	4	0.79
7	T Piscium, Var. 3	10.5	1	0	26	47.35	76	3	41.4	1	0.94
8	β^3 Tucanæ	5.5	...	0	27	15.45	153	41	34.0	4	0.83
9	Lacaille 139	7.0	1	0	28	17.22	161	55	44.6	5	0.90
10	ξ Phœnicis	5.3	3	0	36	17.92	147	9	42.0	4	0.82
11	ρ Tucanæ	5.6	3	0	37	20.43	156	7	39.4	4	0.89
12	16 Ceti β	2.1	...	0	37	33.78	108	38	44.0	9	0.94
13	η Phœnicis	4.5	...	0	37	57.50	148	7	18.7	3	0.84
14	17 Ceti ϕ^1	4.9	...	0	38	8.03	101	15	48.0	4	0.81
15	λ^2 Sculptoris	5.8	2	0	38	23.79	129	4	57.7	4	0.81
16	63 Piscium δ	4.6	...	0	42	27.35	83	4	4.1	9	0.92
17	T Cephei, Var.	7.8	10	0	51	43.39	8	46	18.6	10	0.93
18	2 Ursæ Minoris	4.5	...	0	52	36.33	4	23	14.5	4	0.83
19	R. P. L. 14	6.2	1	0	56	12.47	3	29	41.5	1	0.93
20	71 Piscium ϵ	4.5	...	0	56	42.96	82	45	22.1	10	0.85
21	1 Ursæ Minoris α (<i>Polaris</i>)	2.2	...	1	14	46.74	1	19	51.2	1	0.87
22	45 Ceti θ	3.8	...	1	18	1.43	98	48	9.7	5	0.88
23	U Ceti, Var. 5	7.5	9	1	19	47.29	94	33	6.1	10	0.89
24	48 Andromedæ ω	4.8	...	1	20	28.74	45	12	46.6	4	0.84
25	R Sculptoris, Var. 1	7.0	5	1	21	26.47	123	9	57.0	5	0.94
26	38 Cassiopeiæ	5.9	...	1	22	19.38	20	21	11.8	4	0.61
27	R Piscium Var. 1	9.6	2	1	24	26.88	87	44	22.1	2	0.93
28	99 Piscium η	3.7	...	1	25	3.75	75	16	24.0	9	0.94
29	106 Piscium ν	4.7	...	1	35	11.21	85	7	12.0	10	0.96
30	Taylor 563	5.8	4	1	36	53.79	140	38	41.1	5	0.83
31	Lacaille 507	5.7	3	1	37	41.40	151	23	40.1	3	0.87
32	q^1 Eridani	5.7	4	1	37	51.76	144	20	31.4	4	0.87
33	110 Piscium o	4.4	...	1	39	3.47	81	26	49.5	4	0.49
34	6 Arietis β	2.8	...	1	43	0.63	69	46	45.7	7	0.97
35	η^1 Hydrî, Var.	7.5	4	1	49	32.77	158	32	10.0	7	0.79

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
1	21 Andromedæ α ...	+ 3.0792	+ 0.0182	+ 0.010	- 20.053	+ 0.013	+ 0.16	3215
2	88 Pegasi γ ...	+ 3.0829	+ 0.0100	- 0.001	- 20.045	+ 0.022	+ 0.01	1
3	8 Ceti ϵ ...	+ 3.0594	- 0.0023	- 0.003	- 20.020	+ 0.034	+ 0.03	14
4	12 Ceti ...	+ 3.0610	+ 0.0008	- 0.000	- 19.945	+ 0.055	+ 0.01	38
5	Taylor 120 ...	+ 2.9080	- 0.0270	...	- 19.938	+ 0.054	...	...
6	14 Cassiopeiæ λ ...	+ 3.2729	+ 0.0490	+ 0.003	- 19.934	+ 0.061	+ 0.03	40
7	T Piscium, Var. 3 ...	+ 3.1084	+ 0.0108	...	- 19.933	+ 0.058	...	...
8	β^3 Tucanæ ...	+ 2.7516	- 0.0441	+ 0.012	- 19.913	+ 0.056	- 0.03	Stone
9	Lacaille 139 ...	+ 2.5678	- 0.0577	0.000	- 19.902	+ 0.055	0.00	Stone
10	ξ Phœnicis ...	+ 2.7456	- 0.0321	...	- 19.803	+ 0.072	...	...
11	ρ Tucanæ ...	+ 2.5823	- 0.0414	...	- 19.789	+ 0.069	...	...
12	16 Ceti β ...	+ 2.9987	- 0.0055	+ 0.015	- 19.785	+ 0.080	- 0.03	70
13	η Phœnicis ...	+ 2.7179	- 0.0324	...	- 19.779	+ 0.073	...	...
14	17 Ceti ϕ^1 ...	+ 3.0282	- 0.0017	- 0.003	- 19.777	+ 0.081	+ 0.11	71
15	λ^2 Sculptoris ...	+ 2.8912	- 0.0170	...	- 19.773	+ 0.078	...	...
16	63 Piscium δ ...	+ 3.1022	+ 0.0079	+ 0.004	- 19.711	+ 0.091	+ 0.04	85
17	T Cephæi, Var. ...	+ 5.0110	+ 0.1307	...	- 19.545	+ 0.172	...	...
18	2 Ursæ Minoris ...	+ 7.0353	+ 1.3595	+ 0.068	- 19.528	+ 0.242	+ 0.01	92
19	R. P. L. 14 ...	+ 8.3874	+ 2.1178	+ 0.054	- 19.454	+ 0.305	+ 0.02	95
20	71 Piscium ϵ ...	+ 3.1139	+ 0.0087	- 0.007	- 19.443	+ 0.119	- 0.04	113
21	1 Ursæ Minoris α ...	+ 21.5114	+ 15.8292	+ 0.111	- 18.997	+ 1.013	+ 0.00	102
22	45 Ceti θ ...	+ 3.0032	+ 0.0018	- 0.007	- 18.903	+ 0.154	+ 0.20	184
23	U Ceti, Var. 5 ...	+ 3.0360	+ 0.0039	...	- 18.852	+ 0.159	...	...
24	48 Andromedæ ω ...	+ 3.5288	+ 0.0420	+ 0.031	- 18.831	+ 0.184	+ 0.10	186
25	R Sculptoris, Var. 1..	+ 2.7683	- 0.0085	...	- 18.802	+ 0.148	...	...
26	38 Cassiopeiæ ...	+ 4.3390	+ 0.1427	+ 0.026	- 18.775	+ 0.220	+ 0.07	188
27	R Piscium, Var. 1 ...	+ 3.0914	+ 0.0073	...	- 18.708	+ 0.169	...	...
28	99 Piscium η ...	+ 3.1997	+ 0.0141	- 0.000	- 18.687	+ 0.177	+ 0.00	203
29	106 Piscium ν ...	+ 3.1184	+ 0.0091	- 0.003	- 18.349	+ 0.191	- 0.01	228
30	Taylor 568 ...	+ 2.4035	- 0.0117	...	- 18.288	+ 0.152	...	...
31	Lacaille 507 ...	+ 2.0587	- 0.0099	...	- 18.259	+ 0.132	...	...
32	q^1 Eridani ...	+ 2.3005	- 0.0118	...	- 18.253	+ 0.147	...	...
33	110 Piscium σ ...	+ 3.1566	+ 0.0111	+ 0.003	- 18.210	+ 0.200	- 0.06	232
34	6 Arietis β ...	+ 3.2959	+ 0.0183	+ 0.005	- 17.868	+ 0.226	+ 0.10	252
35	η^1 Hydri, Var. ...	+ 1.5083	+ 0.0091	...	- 17.807	+ 0.109	...	...

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
36	η^3 Hydri	4.9	...	1	51	53.65	158	14	19.0	3	0.92
37	48 Cassiopeiæ	4.6	...	1	52	7.07	19	40	32.4	4	0.64
38	50 Cassiopeiæ	4.1	...	1	53	12.77	18	9	37.2	4	0.86
39	Lacaille 616	6.3	...	1	56	32.51	156	38	52.7	1	0.01
40	χ Phœnicis	5.0	2	1	56	53.64	185	17	30.5	3	0.58
41	S Arietis, Var. 2	10.2	4	1	58	10.96	73	2	55.7	4	0.98
42	13 Arietis α	2.0	...	2	0	24.53	67	6	20.7	4	0.91
43	67 Ceti	5.5	...	2	10	59.84	96	58	31.8	13	0.95
44	73 Ceti ξ^3	4.4	...	2	21	46.76	82	4	42.3	2	0.93
45	B. P. L. 26	8.0	...	2	26	42.45	3	28	38.9	7	0.86
46	35 Arietis	4.7	...	2	36	24.58	62	48	13.6	1	0.02
47	ζ Horologii	5.6	3	2	36	55.53	145	3	52.4	4	0.91
48	Lalande 5033	8.0	6	2	36	58.01	72	57	45.2	6	0.04
49	86 Ceti γ^3	3.6	...	2	37	4.95	87	16	13.4	3	0.66
50	36 Arietis	7.0	6	2	37	37.44	72	44	41.8	6	0.32
51	ϵ Hydri	5.3	4	2	37	44.80	158	46	55.3	5	0.94
52	Lacaille 893	5.6	1	2	41	21.00	157	13	11.7	1	0.90
53	15 Persei τ	3.9	...	2	41	56.98	34	36	13.2	5	0.77
54	γ Horologii	5.6	2	2	42	53.66	154	12	30.3	2	0.96
55	16 Persei	4.4	...	2	43	0.55	52	10	35.6	5	0.97
56	ζ Hydri	5.0	1	2	43	41.84	158	7	18.1	1	0.99
57	ν Fornacis—1st	5.7	4	2	43	50.59	127	54	9.8	5	0.93
58	γ^1 Fornacis	5.7	3	2	44	32.11	115	3	16.4	3	0.94
59	2 Eridani τ^2	4.8	...	2	45	35.67	111	29	58.4	2	0.06
60	18 Persei τ	4.0	...	2	45	45.27	37	43	46.5	5	0.96
61	η^3 Fornacis	5.8	2	2	45	49.48	126	10	14.0	2	0.03
62	44 Arietis ρ^1	7.0	2	2	48	11.80	72	45	15.6	2	0.02
63	46 Arietis ρ^3	5.5	...	2	49	39.83	72	27	22.6	6	0.04
64	22 Persei π	4.7	...	2	51	5.48	50	49	7.2	3	0.62
65	Lalande 5456	8.5	6	2	51	10.93	72	40	12.3	6	0.33
66	6 Eridani	6.1	...	2	52	45.46	114	5	20.1	2	0.91
67	50 Arietis	7.0	1	2	53	40.84	72	23	19.8	2	0.02
68	92 Ceti α (<i>Menkar</i>)	2.7	...	2	56	0.32	86	22	54.2	1	0.99
69	23 Persei γ	3.1	...	2	56	6.80	36	57	52.4	2	0.50
70	Radcliffe 860	5.0	3	2	56	31.73	93	46	0.7	4	0.95

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
36	η^2 Hydri ...	+ 1.5014	+ 0.0095	...	- 17.711	+ 0.111	...	...
37	48 Cassiopeie ...	+ 4.8293	+ 0.1641	- 0.014	- 17.701	+ 0.337	+ 0.01	258
38	50 Cassiopeie ...	+ 5.0048	+ 0.1866	- 0.011	- 17.656	+ 0.352	- 0.02	260
39	Lacaille 616 ...	+ 1.5647	+ 0.0070	...	- 17.517	+ 0.110	...	...
40	χ Phœnicis ...	+ 2.4129	- 0.0073	- 0.004	- 17.502	+ 0.180	+ 0.02	Stone
41	δ Arietis, Var. 2 ...	+ 3.2119	+ 0.0134	...	- 17.445	+ 0.239	...	...
42	13 Arietis α ...	+ 3.3555	+ 0.0203	+ 0.013	- 17.349	+ 0.252	+ 0.13	287
43	67 Ceti ...	+ 2.9838	+ 0.0019	+ 0.004	- 16.866	+ 0.242	+ 0.11	321
44	73 Ceti ξ^2 ...	+ 3.1802	+ 0.0117	+ 0.001	- 16.338	+ 0.276	+ 0.00	347
45	R. P. L. 26 ...	+ 16.2120	+ 3.7711	...	- 16.084	+ 1.419	...	...
46	35 Arietis ...	+ 3.5057	+ 0.0233	- 0.002	- 15.563	+ 0.320	+ 0.01	380
47	ζ Horologii ...	+ 1.8618	+ 0.0017	...	- 15.534	+ 0.170	...	...
48	Lalande 5033 ...	+ 3.3314	+ 0.0165	...	- 15.532	+ 0.314	...	...
49	86 Ceti γ^2 ...	+ 3.1127	+ 0.0094	- 0.011	- 15.525	+ 0.294	+ 0.16	383
50	36 Arietis ...	+ 3.3359	+ 0.0166	+ 0.002	- 15.495	+ 0.315	+ 0.03	384
51	ϵ Hydri ...	+ 0.8849	+ 0.0345	+ 0.017	- 15.489	+ 0.089	0.00	Stone
52	Lacaille 893 ...	+ 1.0117	+ 0.0279	+ 0.017	- 15.286	+ 0.102	+ 0.06	Stone
53	15 Persæ η ...	+ 4.3305	+ 0.0677	+ 0.002	- 15.252	+ 0.416	+ 0.03	Rombert
54	γ Horologii ...	+ 1.2074	+ 0.0175	...	- 15.198	+ 0.127	...	...
55	16 Persæ ...	+ 3.7499	+ 0.0334	+ 0.017	- 15.192	+ 0.363	+ 0.06	394
56	ζ Hydri ...	+ 0.8914	+ 0.0329	+ 0.015	- 15.152	+ 0.092	- 0.03	Stone
57	ν Fornacis—1st ...	+ 2.3899	- 0.0012	...	- 15.145	+ 0.235	...	...
58	γ^1 Fornacis ...	+ 2.6611	+ 0.0008	...	- 15.104	+ 0.261	...	...
59	2 Eridani τ^2 ...	+ 2.7241	+ 0.0016	- 0.006	- 15.044	+ 0.268	+ 0.02	404
60	18 Persæ τ ...	+ 4.2159	+ 0.0583	- 0.002	- 15.033	+ 0.412	+ 0.01	399
61	η^2 Fornacis ...	+ 2.4252	- 0.0008	...	- 15.030	+ 0.240	...	...
62	44 Arietis ρ^1 ...	+ 3.3502	+ 0.0164	...	- 14.891	+ 0.333	...	...
63	46 Arietis ρ^3 ...	+ 3.3573	+ 0.0165	+ 0.019	- 14.805	+ 0.336	+ 0.19	408
64	22 Persæ π ...	+ 3.8122	+ 0.0346	+ 0.001	- 14.721	+ 0.383	+ 0.03	411
65	Lalande 5456 ...	+ 3.3557	+ 0.0164	...	- 14.715	+ 0.338	...	...
66	6 Eridani ...	+ 2.6632	+ 0.0015	- 0.001	- 14.621	+ 0.272	+ 0.03	423
67	50 Arietis ...	+ 3.3626	+ 0.0164	- 0.003	- 14.561	+ 0.343	0.00	420
68	92 Ceti α ...	+ 3.1310	+ 0.0098	- 0.003	- 14.425	+ 0.323	+ 0.07	428
69	23 Persæ γ ...	+ 4.3069	+ 0.0594	- 0.002	- 14.419	+ 0.442	+ 0.00	422
70	Radcliffe 800 ...	+ 4.4648	+ 0.0689	...	- 14.393	+ 0.458	...	...

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
71	Brisbane 462	5.0	4	2	56	32.01	154	32	56.1	5	0.93
72	9 Eridani ρ^a	5.4	...	2	56	48.80	98	9	28.9	4	0.69
73	Lalande 5701	9.0	2	2	59	1.46	72	17	16.5	2	0.01
74	ι Persei	4.1	...	3	0	24.71	40	50	47.4	5	0.22
75	53 Arietis	7.8	1	3	0	40.21	72	35	3.1	1	0.02
76	27 Persei κ	4.0	...	3	1	24.32	45	35	55.3	1	0.03
77	R. P. L. 33	5.8	...	3	4	8.59	5	31	5.1	3	0.60
78	57 Arietis δ	4.5	...	3	4	46.08	70	43	40.5	5	0.95
79	Radcliffe 914	5.9	2	3	9	26.88	24	47	16.9	2	0.05
80	Lalande 6095	8.4	2	3	11	32.87	72	15	56.7	3	0.03
81	... ..	9.4	4	3	11	52.36	71	57	56.9	4	0.04
82	15 Eridani	5.0	...	3	13	3.72	112	57	1.8	1	0.06
83	96 Ceti κ^1	5.0	...	3	13	4.10	87	4	15.3	2	0.06
84	ϵ Eridani	4.4	...	3	15	8.28	133	81	46.7	2	0.88
85	ζ^1 Reticuli	5.7	3	3	15	10.03	153	2	7.3	4	0.71
86	ζ^2 Reticuli... ..	5.6	4	3	15	36.58	152	57	56.9	4	0.94
87	Lacaille 1092	5.3	4	3	16	37.49	157	21	48.7	5	0.97
88	... ..	9.2	3	3	16	50.10	71	52	22.8	3	0.03
89	1 Tauri σ , Var. 5	Var.	...	3	18	21.46	81	23	40.1	1	0.92
90	Lalande 6341	7.7	5	3	20	12.32	71	39	53.5	5	0.03
91	Radcliffe 962	4.8	...	3	20	20.61	31	32	18.3	2	0.07
92	Radcliffe 969	5.0	3	3	20	51.49	34	57	52.5	3	0.62
93	... ..	10.0	4	3	21	18.20	71	56	11.0	4	0.97
94	35 Persei σ	4.4	...	3	22	7.08	42	25	13.7	3	0.66
95	... ..	9.4	7	3	22	56.39	71	40	32.3	7	0.67
96	17 Eridani	4.8	...	3	24	39.82	95	29	16.1	2	0.04
97	Lalande 6433	9.1	4	3	24	52.43	71	36	37.9	4	0.48
98	ζ Eridani	6.4	...	3	25	56.97	131	46	33.5	2	0.09
99	18 Eridani ϵ	3.7	...	3	27	16.58	99	51	55.1	5	0.21
100	R. P. L. 34	5.9	...	3	27	21.94	3	44	5.0	2	0.99
101	Lacaille 1164	6.1	...	3	29	38.40	156	53	45.8	2	0.09
102	Lalande 6656	9.0	1	3	30	29.85	71	47	59.9	1	0.01
103	Lacaille 1188	6.0	2	3	33	4.12	156	9	48.2	3	0.05
104	τ Fornacis... ..	6.0	2	3	33	48.21	118	20	11.0	3	0.06
105	Radcliffe 1039	6.0	3	3	35	33.33	27	2	6.5	3	0.07

77.—Groombridge 595. 73—75—80—81—88—90—93—95—97—102.—Comparison stars for Mars in 1879.
100.—Groombridge 642.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
71	Brisbane 462 ...	+ 1.1160	+ 0.0215	...	- 14.393	+ 0.119	...	...
72	9 Eridani ρ^2 ...	+ 2.9387	+ 0.0057	+ 0.001	- 14.376	+ 0.304	- 0.01	432
73	Lalande 5701 ...	+ 3.3729	+ 0.0164	...	- 14.240	+ 0.352	...	...
74	ι Persei ...	+ 4.1677	+ 0.0497	+ 0.127	- 14.155	+ 0.435	+ 0.06	Romberg
75	53 Arietis ...	+ 3.3697	+ 0.0161	- 0.003	- 14.138	+ 0.354	- 0.01	439
76	27 Persei κ ...	+ 4.0038	+ 0.0410	+ 0.015	- 14.093	+ 0.421	+ 0.16	438
77	R. P. L. 33 ...	+ 13.0323	+ 1.6105	+ 0.045	- 13.921	+ 1.374	+ 0.12	402
78	57 Arietis δ ...	+ 3.4097	+ 0.0171	+ 0.010	- 13.882	+ 0.364	- 0.01	446
79	Radcliffe 914 ...	+ 5.2035	+ 0.1120	...	- 13.575	+ 0.563	...	...
80	Lalande 6095 ...	+ 3.3894	+ 0.0159	...	- 13.449	+ 0.367	...	...
81	... ..	+ 3.3956	+ 0.0161	...	- 13.427	+ 0.373	...	...
82	15 Eridani ...	+ 2.6498	+ 0.0024	- 0.000	- 13.349	+ 0.294	- 0.01	466
83	96 Ceti κ^1 ...	+ 3.1234	+ 0.0094	+ 0.016	- 13.350	+ 0.345	- 0.11	463
84	ϵ Eridani ...	+ 2.1170	+ 0.0017	+ 0.266	- 13.214	+ 0.238	- 0.75	Stone
85	ζ^1 Reticuli ...	+ 1.0953	+ 0.0203	+ 0.194	- 13.212	+ 0.126	- 0.65	Stone
86	ζ^2 Reticuli ...	+ 1.0981	+ 0.0201	+ 0.190	- 13.184	+ 0.127	- 0.65	Stone
87	Lacaille 1092 ...	+ 0.6470	+ 0.0366	+ 0.011	- 13.115	+ 0.077	+ 0.15	Stone
88	... ..	+ 3.4036	+ 0.0160	...	- 13.102	+ 0.381	...	...
89	1 Tauri α ...	+ 3.2264	+ 0.0115	- 0.005	- 13.000	+ 0.364	+ 0.07	477
90	Lalande 6341 ...	+ 3.4119	+ 0.0159	...	- 12.877	+ 0.387	...	...
91	Radcliffe 962 ...	+ 4.7432	+ 0.0728	...	- 12.867	+ 0.535	...	...
92	Radcliffe 969 ...	+ 4.5444	+ 0.0613	...	- 12.837	+ 0.515	...	...
93	... ..	+ 3.4079	+ 0.0158	...	- 12.803	+ 0.387	...	...
94	35 Persei σ ...	+ 4.2017	+ 0.0436	0.000	- 12.743	+ 0.477	- 0.02	470
95	... ..	+ 3.4151	+ 0.0159	...	- 12.692	+ 0.390	...	...
96	17 Eridani ...	+ 2.9722	+ 0.0066	- 0.001	- 12.575	+ 0.342	- 0.00	487
97	Lalande 6483 ...	+ 3.4188	+ 0.0157	...	- 12.560	+ 0.393	...	...
98	ζ Eridani ...	+ 2.1378	+ 0.0021	...	- 12.488	+ 0.240	...	...
99	18 Eridani ϵ ...	+ 2.8896	+ 0.0055	- 0.068	- 12.396	+ 0.336	- 0.01	493
100	R. P. L. 34 ...	+ 19.1816	+ 3.2508	+ 0.136	- 12.392	+ 2.210	+ 0.06	Gr.
101	Lacaille 1164 ...	+ 0.5891	+ 0.0357	...	- 12.233	+ 0.073	...	...
102	Lalande 6656 ...	+ 3.4216	+ 0.0154	...	- 12.174	+ 0.401	...	...
103	Lacaille 1188 ...	+ 0.6473	+ 0.0326	...	- 11.994	+ 0.080	...	...
104	τ Fornacis ...	+ 2.4931	+ 0.0023	...	- 11.942	+ 0.297	...	...
105	Radcliffe 1039 ...	+ 5.1899	+ 0.0892	...	- 11.819	+ 0.615	...	...

100.—Proper motions from Greenwich Catalogue, 1872.

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
106	40 Persei σ	5.0	...	3	36	47.74	58	5	36.3	1	0.02
107	41 Persei ν	4.0	...	3	37	2.75	47	48	5.2	4	0.09
108	δ Fornacis	5.4	5	3	37	28.42	122	19	20.5	5	0.79
109	16 Tauri (<i>Celæno</i>)	6.5	...	3	37	40.24	66	5	22.2	3	0.63
110	γ Camelopardi	4.6	...	3	37	42.80	19	2	21.8	1	0.99
111	19 Tauri (<i>Taygeta</i>)	4.4	...	3	38	4.00	65	54	38.3	5	0.94
112	Radcliffe 1053	5.3	2	3	38	32.92	24	50	40.7	3	0.40
113	20 Tauri (<i>Maia</i>)	4.0	...	3	38	41.27	66	0	31.5	3	0.97
114	21 Tauri (<i>k Asterope</i>)	7.0	3	3	38	45.10	65	49	16.7	3	0.97
115	22 Tauri (<i>l Asterope</i>)	7.0	1	3	38	54.02	65	50	52.2	1	0.93
116	23 Tauri (<i>Merope</i>)	4.2	...	3	39	12.37	66	25	37.3	2	0.95
117	25 Tauri η (<i>Aleyone</i>)	3.0	...	3	40	21.11	66	16	2.3	1	0.06
118	W. B. N. III. 883	9.2	2	3	41	3.53	71	42	30.7	2	0.02
119	Taylor 1304	5.8	2	3	41	32.36	137	44	3.0	3	0.06
120	27 Tauri (<i>Atlas</i>)	3.8	...	3	42	1.63	66	18	52.9	4	0.73
121	28 Tauri (<i>Pleione</i>)	5.6	2	3	42	2.89	66	13	52.8	3	0.90
122	28 Eridani τ^1	4.8	...	3	42	29.90	114	14	51.0	5	0.44
123	ρ^1 Eridani—1st	5.5	...	3	44	9.93	127	59	24.3	4	0.08
124	ρ^2 Eridani	4.8	...	3	44	10.08	127	59	16.6	5	0.25
125	Lalande 7131	9.4	1	3	45	23.93	71	26	34.1	1	0.03
126	W Tauri, var.	8.0	7	3	46	45.79	82	35	6.0	7	0.98
127	Radcliffe 1089	5.5	2	3	46	50.74	27	16	54.1	3	0.06
128	ν^2 Eridani	5.3	...	3	49	4.61	125	5	17.6	3	0.07
129	45 Persei ϵ	3.0	...	3	49	48.31	50	20	19.5	2	0.04
130	34 Eridani γ^1	3.0	...	3	52	25.68	103	51	3.4	3	0.97
131	35 Eridani	5.2	...	3	55	27.21	91	53	13.5	2	0.07
132	38 Tauri ν	4.0	...	3	56	46.47	84	20	41.7	3	0.10
133	δ Reticuli	5.3	4	3	56	50.88	151	44	24.3	5	0.60
134	37 Tauri A ¹	4.4	...	3	57	36.07	68	14	51.2	10	0.03
135	47 Persei λ	4.5	...	3	57	38.78	39	58	33.8	3	0.05
136	Lacaille 1339	8.0	5	3	59	7.36	134	43	15.6	5	0.99
137	γ Reticuli	5.0	2	3	59	9.77	152	29	42.6	4	0.53
138	μ Reticuli	5.1	...	3	59	21.53	151	24	55.9	3	0.11
139	R. P. L. 35	6.7	...	3	59	23.55	4	45	47.8	1	0.97
140	43 Persei c	4.3	...	3	59	57.12	42	36	34.0	3	0.05

118—125.—Comparison stars for Mars in 1879.

139.—Groombridge 750.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	"	"	"	
106	40 Persei σ ...	+ 3.7474	+ 0.0235	- 0.000	- 11.731	+ 0.448	+ 0.00	501
107	41 Persei ν ...	+ 4.0562	+ 0.0336	- 0.002	- 11.714	+ 0.484	+ 0.01	506
108	δ Fornacis ...	+ 2.3848	+ 0.0022	...	- 11.683	+ 0.287	...	...
109	16 Tauri ...	+ 3.5544	+ 0.0180	+ 0.001	- 11.668	+ 0.431	+ 0.06	508
110	γ Camelopardi ...	+ 6.2234	+ 0.1605	- 0.002	- 11.666	+ 0.741	+ 0.05	Homburg
111	19 Tauri ...	+ 3.5590	+ 0.0181	- 0.001	- 11.641	+ 0.427	+ 0.03	511
112	Radcliffe 1053 ...	+ 5.4267	+ 0.1016	...	- 11.606	+ 0.649	...	...
113	20 Tauri ...	+ 3.5578	+ 0.0179	+ 0.000	- 11.597	+ 0.428	+ 0.04	512
114	21 Tauri ...	+ 3.5621	+ 0.0181	+ 0.000	- 11.592	+ 0.427	+ 0.04	513
115	22 Tauri ...	+ 3.5617	+ 0.0181	+ 0.001	- 11.582	+ 0.429	+ 0.04	514
116	23 Tauri ...	+ 3.5490	+ 0.0177	- 0.001	- 11.560	+ 0.427	+ 0.04	516
117	25 Tauri η ...	+ 3.5543	+ 0.0177	- 0.000	- 11.477	+ 0.430	+ 0.04	521
118	W. B. N. 111. 883 ...	+ 3.4354	+ 0.0148	...	- 11.426	+ 0.416	...	...
119	Taylor 1304 ...	+ 1.8617	+ 0.0046	...	- 11.393	+ 0.228	...	...
120	27 Tauri ...	+ 3.5557	+ 0.0175	- 0.000	- 11.356	+ 0.432	+ 0.05	527
121	28 Tauri ...	+ 3.5576	+ 0.0175	- 0.001	- 11.355	+ 0.432	+ 0.06	528
122	28 Eridani γ^7 ...	+ 2.5753	+ 0.0030	...	- 11.323	+ 0.315	...	...
123	γ^1 Eridani ...	+ 2.2062	+ 0.0026	...	- 11.201	+ 0.272	...	...
124	γ^2 Eridani ...	+ 2.2063	+ 0.0026	...	- 11.201	+ 0.272	...	...
125	Lalande 7131 ...	+ 3.4459	+ 0.0146	...	- 11.113	+ 0.423	...	...
126	W Tauri ...	+ 3.2175	+ 0.0101	...	- 11.012	+ 0.397	...	...
127	Radcliffe 1089 ...	+ 5.2394	+ 0.0837	...	- 11.007	+ 0.642	...	...
128	ν^2 Eridani ...	+ 2.2822	+ 0.0026	- 0.003	- 10.843	+ 0.285	+ 0.05	Stone
129	45 Persei ϵ ...	+ 4.0066	+ 0.0289	+ 0.000	- 10.790	+ 0.497	+ 0.02	539
130	34 Eridani γ^1 ...	+ 2.7924	+ 0.0047	+ 0.003	- 10.595	+ 0.351	+ 0.11	546
131	35 Eridani ...	+ 3.0346	+ 0.0072	- 0.001	- 10.369	+ 0.382	+ 0.03	550
132	38 Tauri ν ...	+ 3.1861	+ 0.0093	+ 0.000	- 10.271	+ 0.463	+ 0.01	553
133	δ Reticuli ...	+ 0.9359	+ 0.0196	- 0.004	- 10.265	+ 0.121	+ 0.02	Stone
134	37 Tauri A ¹ ...	+ 3.5315	+ 0.0153	+ 0.005	- 10.209	+ 0.447	+ 0.03	554
135	47 Persei λ ...	+ 4.4451	+ 0.0414	- 0.002	- 10.205	+ 0.561	+ 0.03	549
136	Lacaille 1339 ...	+ 1.9282	+ 0.0042	...	- 10.092	+ 0.247	...	...
137	γ Reticuli ...	+ 0.8533	+ 0.0215	...	- 10.090	+ 0.111	...	...
138	ϵ Reticuli ...	+ 0.9508	+ 0.0190	...	- 10.076	+ 0.124	...	...
139	R. P. L. 35 ...	+ 16.9494	+ 1.8075	+ 0.057	- 10.073	+ 2.141	- 0.05	Gr.
140	48 Persei ϵ ...	+ 4.3308	+ 0.0366	+ 0.002	- 10.030	+ 0.560	+ 0.03	557

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitnde.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
141	38 Eridani σ^1	4.1	...	4	6	0.45	97	9	5.6	7	0.95
142	52 Persei f	4.9	...	4	6	43.41	49	49	17.8	1	0.03
143	39 Eridani A.	4.9	...	4	8	41.04	100	33	17.5	3	0.05
144	40 Eridani σ^2	4.5	...	4	9	44.94	97	50	26.4	4	0.04
145	α Horologii	5.0	1	4	10	1.44	132	35	28.5	2	0.07
146	54 Tauri γ	3.9	...	4	12	57.94	74	39	49.6	17	0.23
147	73 Tauri π	4.9	...	4	19	40.54	75	33	31.9	2	0.02
148	74 Tauri ϵ	3.7	...	4	21	36.58	71	5	14.3	7	0.56
149	47 Eridani	5.6	...	4	28	24.68	98	28	59.3	4	0.03
150	87 Tauri α (<i>Aldebaran</i>)	1.0	...	4	29	2.08	73	44	1.4	4	0.07
151	88 Tauri δ	4.6	...	4	29	3.69	80	5	13.5	3	0.03
152	90 Tauri c^1	4.3	...	4	31	26.91	77	43	53.0	3	0.05
153	51 Eridani c	5.3	...	4	31	33.87	92	42	53.1	3	0.05
154	... ..	10.0	1	4	34	23.79	130	49	45.5	1	0.13
155	α Coeli	4.6	...	4	36	41.80	132	5	36.1	1	0.01
156	4 Camelopardi	6.4	...	4	38	0.47	33	27	28.5	2	0.02
157	57 Eridani μ	4.3	...	4	39	30.15	93	28	33.4	6	0.19
158	λ Coeli	5.8	2	4	39	47.75	131	17	20.6	2	0.05
159	ζ Coeli	6.0	3	4	41	52.18	129	34	27.4	4	0.08
160	9 Camelopardi α	4.4	...	4	42	7.69	23	51	43.4	5	0.08
161	1 Orionis π^1	3.3	...	4	43	19.63	83	14	59.1	5	0.13
162	2 Orionis π^2	4.4	...	4	44	4.27	81	18	22.6	1	0.01
163	3 Orionis π^3	4.0	...	4	44	48.98	84	36	4.8	3	0.11
164	4 Orionis σ^1	5.4	...	4	45	44.66	75	57	2.4	2	0.12
165	ν Coeli	5.8	2	4	46	22.01	131	31	43.3	3	0.10
166	61 Eridani ω	4.2	...	4	47	0.00	95	39	16.5	2	0.15
167	7 Camelopardi	4.5	...	4	47	40.10	36	26	32.3	5	0.31
168	8 Orionis π^4	3.9	...	4	48	0.18	87	45	25.8	5	0.14
169	μ^1 Pictoris... ..	5.8	...	4	48	14.88	143	39	59.5	2	0.13
170	9 Orionis σ^2	4.3	...	4	49	37.42	76	40	36.5	2	0.03
171	R Eridani, Var.	6.1	7	4	49	55.20	106	36	46.8	7	0.99
172	4 Aurigæ	5.1	...	4	51	6.56	52	17	34.0	3	0.03
173	10 Camelopardi β	4.2	...	4	52	44.81	29	44	8.3	3	0.06
174	8 Aurigæ ζ	4.0	...	4	54	5.47	49	6	4.7	2	0.08
175	63 Eridani... ..	5.7	...	4	54	9.52	100	26	25.0	2	0.08

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	"	"	"	
141	38 Eridani σ^1 ..	+ 2.9249	+ 0.0058	- 0.001	- 9.568	+ 0.379	- 0.09	568
142	52 Persei <i>f</i> ...	+ 4.0660	+ 0.0267	+ 0.000	- 9.514	+ 0.525	+ 0.03	565
143	39 Eridani A ...	+ 2.8520	+ 0.0052	- 0.003	- 9.361	+ 0.372	+ 0.16	574
144	40 Eridani σ^2 ...	+ 2.9092	+ 0.0056	- 0.144	- 9.278	+ 0.380	+ 3.44	578
145	α Horologii ...	+ 1.9821	+ 0.0010	- 0.001	- 9.258	+ 0.260	+ 0.23	Stone
146	54 Tauri γ ...	+ 3.3997	+ 0.0115	+ 0.007	- 9.029	+ 0.446	+ 0.03	583
147	73 Tauri π ...	+ 3.3842	+ 0.0107	- 0.001	- 8.489	+ 0.451	+ 0.02	608
148	74 Tauri ϵ ...	+ 3.4888	+ 0.0120	+ 0.007	- 8.318	+ 0.466	+ 0.03	609
149	47 Eridani ...	+ 2.8886	+ 0.0052	- 0.004	- 7.803	+ 0.391	- 0.01	634
150	87 Tauri α ...	+ 3.4320	+ 0.0105	+ 0.004	- 7.753	+ 0.454	+ 0.18	630
151	88 Tauri δ ...	+ 3.2878	+ 0.0088	+ 0.001	- 7.751	+ 0.445	+ 0.05	632
152	90 Tauri ϵ^1 ...	+ 3.3416	+ 0.0093	+ 0.006	- 7.557	+ 0.454	+ 0.01	639
153	51 Eridani ϵ ...	+ 3.0136	+ 0.0060	+ 0.003	- 7.548	+ 0.410	- 0.07	642
154	... ..	+ 1.9967	+ 0.0040	...	- 7.317	+ 0.274	...	...
155	α Caeli ...	+ 1.9435	+ 0.0042	- 0.016	- 7.131	+ 0.268	+ 0.11	Stone
156	4 Camelopardi ...	+ 4.9674	+ 0.0409	+ 0.003	- 7.022	+ 0.681	+ 0.16	649
157	57 Eridani μ ...	+ 2.9961	+ 0.0055	- 0.000	- 6.899	+ 0.413	+ 0.00	657
158	λ Caeli ...	+ 1.9694	+ 0.0040	...	- 6.876	+ 0.273	...	...
159	ζ Caeli ...	+ 2.0309	+ 0.0037	...	- 6.705	+ 0.282	...	...
160	9 Camelopardi α ...	+ 5.9185	+ 0.0693	- 0.003	- 6.683	+ 0.816	- 0.00	Ramborg
161	1 Orionis π^1 ...	+ 3.2218	+ 0.0071	+ 0.030	- 6.585	+ 0.447	- 0.02	663
162	2 Orionis π^2 ...	+ 3.2656	+ 0.0075	- 0.001	- 6.523	+ 0.453	+ 0.03	667
163	3 Orionis π^3 ...	+ 3.1919	+ 0.0067	- 0.001	- 6.462	+ 0.443	+ 0.00	670
164	4 Orionis σ^1 ...	+ 3.3895	+ 0.0086	- 0.001	- 6.384	+ 0.471	+ 0.06	672
165	ν Caeli ...	+ 1.9489	+ 0.0041	- 0.005	- 6.332	+ 0.273	- 0.10	Stone
166	61 Eridani ω ...	+ 2.9466	+ 0.0050	- 0.004	- 6.280	+ 0.411	- 0.04	676
167	7 Camelopardi ...	+ 4.7935	+ 0.0318	- 0.002	- 6.225	+ 0.667	- 0.01	669
168	8 Orionis π^4 ...	+ 3.1221	+ 0.0061	- 0.000	- 6.197	+ 0.436	+ 0.01	680
169	δ^1 Pictoris ...	+ 1.3429	+ 0.0079	...	- 6.177	+ 0.189	...	...
170	9 Orionis σ^2 ...	+ 3.3741	+ 0.0082	- 0.006	- 6.061	+ 0.472	+ 0.05	682
171	R Eridani, Var. ...	+ 2.6919	+ 0.0038	...	- 6.037	+ 0.377	...	...
172	4 Aurigo ...	+ 4.0595	+ 0.0165	+ 0.000	- 5.938	+ 0.568	+ 0.10	683
173	10 Camelopardi β ...	+ 5.3128	+ 0.0419	0.000	- 5.800	+ 0.744	+ 0.01	681
174	8 Aurigo ζ ...	+ 4.1828	+ 0.0176	- 0.001	- 5.687	+ 0.587	+ 0.01	693
175	63 Eridani ...	+ 2.8360	+ 0.0043	+ 0.001	- 5.682	+ 0.390	+ 0.12	697

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
176	8 Eridani, var. ...	5.2	2	4	54	21.15	102	42	54.5	2	0.08
177	65 Eridani ψ ...	4.7	...	4	55	37.18	97	21	4.3	3	0.09
178	11 Camelopardi ...	5.1	...	4	55	42.82	31	11	51.9	3	0.11
179	Taylor 1796 ...	5.5	5	4	56	13.16	110	13	38.7	5	0.47
180	Taylor 1806 ...	5.2	3	4	57	16.87	116	26	46.4	3	0.05
181	9 Aurigæ ...	4.9	...	4	57	16.92	88	33	50.5	5	0.15
182	10 Aurigæ η ...	3.3	...	4	58	6.13	48	55	47.3	5	0.47
183	η^1 Pictoris ...	5.8	2	4	59	40.47	139	19	15.2	2	0.04
184	Taylor 1836 ...	7.0	3	5	0	9.32	139	39	39.0	3	0.05
185	η^2 Pictoris ...	5.6	2	5	1	51.63	139	45	26.4	2	0.02
186	Radcliffe 1402 ...	5.2	...	5	2	48.69	10	54	41.2	5	0.14
187	ζ Doradus ...	5.0	1	5	3	27.35	147	38	13.0	1	0.06
188	11 Aurigæ μ ...	4.9	...	5	5	13.02	51	39	34.3	3	0.04
189	3 Leporis ϵ ...	4.7	...	5	6	41.83	102	0	53.5	2	0.09
190	17 Orionis ρ ...	4.5	...	5	7	1.01	87	16	59.0	1	0.11
191	5 Leporis μ ..	3.3	...	5	7	32.45	106	20	55.1	2	0.11
192	14 Aurigæ—2nd ...	5.2	...	5	7	35.52	57	27	11.2	5	0.14
193	4 Leporis κ ...	4.6	...	5	7	41.48	103	5	5.2	2	0.11
194	19 Orionis β (<i>Rigel</i>) ...	0.3	...	5	8	46.30	98	20	29.3	2	0.06
195	15 Aurigæ λ ...	5.0	...	5	10	41. ³⁷ ₈₅	50	0	33.5	1	0.02
196	7 Leporis ν ...	5.2	...	5	14	24.89	102	26	22.9	2	0.03
197	23 Orionis m ...	5.0	...	5	16	31.71	86	34	22.6	3	0.04
198	Bradley 757 ...	5.9	4	5	17	45.33	90	58	50.8	5	0.09
199	29 Orionis e ...	4.3	...	5	18	9.94	97	55	9.5	3	0.04
200	28 Orionis η ...	3.5	...	5	18	26.70	92	30	33.9	2	0.08
201	112 Tauri β ...	1.9	...	5	18	42.44	61	29	44.9	4	0.11
202	24 Aurigæ ϕ ...	5.3	...	5	19	41.50	55	37	40.0	3	0.07
203	31 Orionis, var. ...	5.2	3	5	23	38.45	91	11	18.5	3	0.35
204	Radcliffe 1485 ...	6.1	5	5	23	41.19	15	2	21.6	5	0.13
205	R. P. L. 40 ...	6.0	...	5	23	41.32	4	52	8.7	4	0.19
206	32 Orionis A ...	4.3	...	5	24	21.81	84	8	38.9	1	0.04
207	25 Aurigæ χ ...	5.0	...	5	24	55.17	57	53	53.5	2	0.04
208	34 Orionis δ , var. I ...	var.	...	5	25	52.60	90	23	22.7	2	0.97
209	10 Leporis ...	5.4	...	5	25	59.57	110	57	12.9	2	0.03
210	36 Orionis ν ...	4.7	...	5	26	7.60	97	23	27.4	3	0.05

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
176	S Eridani ...	+ 2.7829	+ 0.0040	...	- 5.665	+ 0.391	...	...
177	65 Eridani ψ ...	+ 2.9066	+ 0.0045	- 0.002	- 5.560	+ 0.409	- 0.02	701
178	11 Camolopardi ...	+ 5.1938	+ 0.0372	- 0.001	- 5.552	+ 0.729	+ 0.01	691
179	Taylor 1796 ...	+ 2.5987	+ 0.0034	...	- 5.510	+ 0.366	...	...
180	Taylor 1806 ...	+ 2.4321	+ 0.0032	+ 0.005	- 5.420	+ 0.343	+ 0.10	Stone
181	9 Aurigæ ...	+ 4.6868	+ 0.0255	- 0.003	- 5.419	+ 0.660	+ 0.17	696
182	10 Aurigæ η ...	+ 4.1951	+ 0.0168	+ 0.002	- 5.350	+ 0.591	+ 0.06	700
183	η^1 Pictoris ...	+ 1.5704	+ 0.0056	...	- 5.218	+ 0.223	...	...
184	Taylor 1836 ...	+ 1.5515	+ 0.0058	...	- 5.177	+ 0.221	...	...
185	η^2 Pictoris ...	+ 1.5441	+ 0.0057	+ 0.002	- 5.033	+ 0.220	+ 0.02	Stone
186	Radeliffe 1402 ...	+ 9.7927	+ 0.2098	- 0.038	- 5.002	+ 1.383	- 0.14	Romburg
187	ζ Doradus ...	+ 1.0265	+ 0.0098	...	- 4.898	+ 0.147	...	...
188	11 Aurigæ μ ...	+ 4.0996	+ 0.0139	- 0.005	- 4.748	+ 0.583	+ 0.07	719
189	3 Leporis ι ...	+ 2.7955	+ 0.0038	+ 0.000	- 4.622	+ 0.399	+ 0.00	727
190	17 Orionis ρ ...	+ 3.1341	+ 0.0051	- 0.001	- 4.595	+ 0.447	+ 0.00	725
191	5 Leporis μ ...	+ 2.6904	+ 0.0035	+ 0.000	- 4.551	+ 0.384	+ 0.02	732
192	14 Aurigæ—2nd ...	+ 3.9034	+ 0.0111	- 0.001	- 4.546	+ 0.556	- 0.01	723
193	4 Leporis κ ...	+ 2.7696	+ 0.0036	- 0.002	- 4.537	+ 0.395	+ 0.01	730
194	19 Orionis β ...	+ 2.8811	+ 0.0040	- 0.001	- 4.445	+ 0.412	- 0.01	736
195	15 Aurigæ λ ...	+ 4.1680	+ 0.0133	+ 0.045	- 4.280	+ 0.595	+ 0.06	731
196	7 Leporis ν ...	+ 2.7832	+ 0.0034	- 0.002	- 3.962	+ 0.400	- 0.02	749
197	23 Orionis m ...	+ 3.1509	+ 0.0046	- 0.001	- 3.780	+ 0.453	+ 0.00	753
198	Bradley 757 ...	+ 3.0498	+ 0.0042	- 0.006	- 3.676	+ 0.439	+ 0.02	757
199	29 Orionis e ...	+ 2.8894	+ 0.0037	- 0.001	- 3.640	+ 0.416	+ 0.03	764
200	28 Orionis η ...	+ 3.0147	+ 0.0040	- 0.002	- 3.616	+ 0.434	- 0.01	765
201	112 Tauri β ...	+ 3.7866	+ 0.0082	+ 0.001	- 3.594	+ 0.545	+ 0.18	756
202	24 Aurigæ ϕ ...	+ 3.9727	+ 0.0095	- 0.002	- 3.508	+ 0.572	+ 0.04	758
203	31 Orionis ...	+ 3.0449	+ 0.0038	- 0.002	- 3.168	+ 0.439	+ 0.02	779
204	Radeliffe 1485 ...	+ 7.9858	+ 0.0766	+ 0.000	- 3.164	+ 1.150	+ 0.02	Romburg
205	R. P. L. 40 ...	+ 18.5709	+ 0.6107	...	- 3.164	+ 2.675	...	...
206	32 Orionis A ...	+ 3.2077	+ 0.0043	- 0.001	- 3.106	+ 0.463	+ 0.03	780
207	25 Aurigæ χ ...	+ 3.9012	+ 0.0077	- 0.001	- 3.058	+ 0.563	0.00	776
208	34 Orionis δ ...	+ 3.0633	+ 0.0038	- 0.001	- 2.975	+ 0.443	+ 0.01	787
209	10 Leporis ...	+ 2.5659	+ 0.0029	- 0.001	- 2.963	+ 0.371	+ 0.04	791
210	36 Orionis ν ...	+ 2.9008	+ 0.0034	- 0.000	- 2.953	+ 0.419	+ 0.01	789

Mean Positions of Stars for 1880, January 1st.

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
211	11 Leporis α	2.7	...	5	27	26.20	107	54	33.6	4	0.13
212	Lacaille 1895	5.8	...	5	28	48.98	128	35	55.0	1	0.09
213	42 Orionis c	4.6	...	5	29	28.00	94	55	6.6	1	0.09
214	Lacaille 1922	6.2	5	5	29	32.68	154	1	3.0	5	0.14
215	46 Orionis e	1.8	...	5	30	7.49	91	16	47.7	4	0.09
216	26 Aurigæ	5.6	...	5	30	55.69	59	34	52.0	1	0.01
217	53 Orionis κ	2.2	...	5	42	3.83	99	42	48.6	16	0.08
218	Taylor 2170	5.0	1	5	43	8.04	136	38	30.8	1	0.01
219	136 Tauri	4.5	...	5	45	46.92	62	25	3.9	1	0.01
220	Taylor 2214	5.6	...	5	48	10.62	142	8	12.7	1	0.02
221	58 Orionis α , Var. 2 (<i>Betelgeuse</i>)	0.9	...	5	48	40.46	82	37	0.7	2	0.06
222	83 Aurigæ δ	3.8	...	5	49	38.84	35	48	38.0	2	0.02
223	Taylor 2232	5.6	2	5	50	19.64	147	10	42.8	2	0.04
224	85 Aurigæ π	4.5	...	5	51	1.45	44	4	34.3	1	0.02
225	δ^a Columbæ	5.6	2	5	51	22.41	127	8	21.1	2	0.04
226	87 Aurigæ θ	2.7	...	5	51	32.10	52	47	50.1	5	0.12
227	Lacaille 2106	5.0	2	5	53	11.22	153	7	37.9	2	0.06
228	... ..	9.5	...	5	55	23.14	121	30	56.5	1	0.13
229	3 Monocerotis	4.8	...	5	56	11.83	100	36	1.8	1	0.01
230	R. P. L. 43	6.6	...	5	59	9.33	3	14	13.2	1	0.17
231	87 Camelopardi	5.3	...	5	59	23.65	31	3	5.3	3	0.02
232	17 Leporis	4.9	...	5	59	38.00	106	28	38.7	5	0.08
233	67 Orionis ν	4.4	...	6	0	43.16	75	13	5.3	4	0.13
234	Taylor 2315	5.6	1	6	1	1.15	135	2	10.4	1	0.02
235	ρ^a Columbæ	6.6	...	6	5	2.77	134	20	10.9	1	0.04
236	Radcliffe 1664	4.7	...	6	5	37.07	20	38	28.3	5	0.13
237	Brisbane 1172	6.0	3	6	5	57.68	152	8	2.9	3	0.06
238	B. F. 864	5.8	...	6	6	1.49	96	31	27.6	1	0.04
239	1 Lynceis	5.4	...	6	6	50.85	28	26	53.6	5	0.13
240	7 Geminorum η	3.5	...	6	7	38.08	67	27	35.4	11	0.12
241	2 Lynceis	4.3	...	6	9	1.92	30	56	54.6	1	0.01
242	74 Orionis k^a	5.1	...	6	9	42.15	77	41	46.0	1	0.01
243	13 Geminorum μ	3.2	...	6	15	42.05	67	25	35.8	4	0.13
244	Taylor 2458	6.0	...	6	16	15.95	124	5	27.7	1	0.02
245	Taylor 2578	5.6	2	6	30	8.44	122	37	20.7	2	0.02

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
211	11 Leporis α ...	+ 2'6445	+ 0'0029	- 0'001	- 2'840	+ 0'383	- 0'01	796
212	Lacaille 1895 ...	+ 2'0150	+ 0'0031	...	- 2'720	- 0'296	...	...
213	42 Orionis ϵ ...	+ 2'9583	+ 0'0033	- 0'001	- 2'664	+ 0'428	- 0'02	803
214	Lacaille 1922 ...	+ 0'3534	+ 0'0111	...	- 2'655	+ 0'052	...	...
215	46 Orionis ϵ ...	+ 3'0427	+ 0'0035	- 0'002	- 2'607	+ 0'441	- 0'01	809
216	26 Aurigæ ...	+ 3'8509	+ 0'0066	- 0'003	- 2'537	+ 0'558	- 0'01	799
217	53 Orionis κ ...	+ 2'8440	- 0'0027	- 0'002	- 1'567	+ 0'414	- 0'00	844
218	Taylor 2170 ...	+ 1'6604	+ 0'0032	- 0'001	- 1'475	+ 0'242	0'00	Stone
219	136 Tauri ...	+ 3'7694	+ 0'0038	+ 0'000	- 1'244	+ 0'549	+ 0'02	848
220	Taylor 2214 ...	+ 1'3550	+ 0'0035	...	- 1'035	+ 0'197	+ 0'07	Stone
221	58 Orionis α ...	+ 3'2453	+ 0'0027	+ 0'001	- 0'990	+ 0'473	- 0'02	860
222	33 Aurigæ δ ...	+ 4'9291	+ 0'0061	+ 0'007	- 0'906	+ 0'718	+ 0'12	852
223	Taylor 2232 ...	+ 1'0013	- 0'0040	...	- 0'847	+ 0'116	...	...
224	35 Aurigæ π ...	+ 4'4520	+ 0'0042	...	- 0'785	+ 0'649	...	...
225	δ^2 Columbæ ...	+ 2'0605	+ 0'0025	...	- 0'755	+ 0'299	...	...
226	37 Aurigæ θ ...	+ 4'0865	- 0'0035	+ 0'004	- 0'740	+ 0'596	+ 0'08	863
227	Lacaille 2106 ...	+ 0'4351	+ 0'0047	...	- 0'596	+ 0'063	...	...
228	... ..	- 2'2526	+ 0'0024	...	- 0'404	+ 0'329	...	...
229	3 Monocerotis ...	+ 2'8221	+ 0'0021	- 0'002	- 0'333	- 0'111	- 0'03	883
230	R. P. L. 43 ...	+ 26'7134	+ 0'0245	...	- 0'076	+ 3'895	...	...
231	37 Camelopardi ...	+ 5'2929	+ 0'0015	+ 0'004	- 0'052	+ 0'772	- 0'03	876
232	17 Leporis ...	+ 2'6769	+ 0'0021	+ 0'000	- 0'032	+ 0'390	- 0'01	890
233	67 Orionis ν ...	+ 3'4251	+ 0'0017	- 0'000	+ 0'063	+ 0'500	+ 0'01	887
234	Taylor 2315 ...	+ 1'7336	+ 0'0025	- 0'009	+ 0'090	+ 0'253	- 0'20	Stone
235	ρ^2 Columbæ ...	+ 1'7663	+ 0'0024	...	+ 0'441	- 0'257	...	...
236	Radcliffe 1664 ...	+ 6'6204	- 0'0057	- 0'001	+ 0'492	+ 0'965	+ 0'11	Romberg
237	Brisbane 1172 ...	+ 0'5447	+ 0'0018	...	+ 0'521	+ 0'080	...	...
238	B. F. 864 ...	+ 2'9195	+ 0'0018	...	+ 0'527	+ 0'426	...	...
239	1 Lynceis ...	+ 5'5388	- 0'0036	- 0'000	+ 0'599	+ 0'807	+ 0'01	893
240	7 Geminorum η ...	+ 3'6268	+ 0'0007	- 0'005	+ 0'668	+ 0'529	+ 0'00	909
241	2 Lynceis ...	+ 5'3002	- 0'0041	+ 0'000	+ 0'791	+ 0'772	- 0'04	902
242	74 Orionis k^2 ...	+ 3'3636	+ 0'0009	+ 0'004	+ 0'850	+ 0'491	- 0'20	919
243	13 Geminorum μ ...	+ 3'6268	- 0'0003	+ 0'004	+ 1'372	+ 0'527	+ 0'10	929
244	Taylor 2458 ...	+ 2'1697	+ 0'0020	...	+ 1'422	+ 0'315	...	...
245	Taylor 2578 ...	+ 2'2240	+ 0'0017	...	+ 2'630	+ 0'321	...	...

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
246	24 Geminorum γ ...	2.0	...	6	30	46.80	73	30	1.8	4	0.15
247	Taylor 2604 ...	5.0	4	6	32	20.06	142	52	41.0	4	0.04
248	Taylor 2607 ...	5.6	2	6	33	4.46	126	53	21.3	2	0.04
249	55 Aurigæ ψ^* ...	5.2	...	6	34	20.85	45	21	42.5	2	0.05
250	31 Geminorum ξ ...	3.4	...	6	38	33.25	76	53	34.5	11	0.14
251	43 Camelopardi ...	5.1	...	6	40	45.60	20	58	31.7	2	0.10
252	Taylor 2672 ...	7.9	3	6	40	48.18	110	38	57.4	4	0.13
253	Radcliffe 1813 ...	4.7	...	6	42	32.41	12	52	27.8	2	0.10
254	51 Cephei (Hæv.) ...	5.0	...	6	43	46.27	2	46	13.8	1	0.17
255	Lalande 18199 ...	8.0	5	6	45	0.69	80	25	10.1	5	0.13
256	h^1 Canis Majoris ...	5.6	2	6	45	51.21	121	33	59.3	2	0.03
257	15 Lyncis ...	4.5	...	6	46	52.69	31	25	22.4	3	0.03
258	14 Canis Majoris θ ...	4.2	...	6	48	36.83	101	53	20.5	14	0.14
259	19 Canis Majoris ...	4.4	...	6	50	25.23	109	59	3.7	2	0.05
260	23 Canis Majoris γ ...	4.1	...	6	58	19.74	105	27	26.2	3	0.13
261	Taylor 2845 ...	5.6	2	7	0	16.66	133	26	30.4	2	0.03
262	Taylor 2849 ...	5.6	3	7	0	46.58	139	24	30.1	3	0.04
263	Taylor 2876 ...	6.0	3	7	4	46.30	115	2	17.2	3	0.14
264	18 Lyncis ...	5.3	...	7	5	25.69	30	9	6.0	3	0.05
265	Radcliffe 1887 ...	4.5	...	7	5	44.58	7	21	49.7	3	0.63
266	Radcliffe 1917 ...	5.0	...	7	9	24.67	40	19	24.2	4	0.07
267	64 Aurigæ ...	4.8	...	7	9	41.35	48	54	20.0	4	0.06
268	55 Geminorum δ ...	3.6	...	7	12	57.30	67	47	51.9	1	0.21
269	19 Lyncis—2nd ...	5.2	...	7	13	4.16	34	29	42.2	3	0.05
270	Taylor 2975 ...	5.3	...	7	14	2.34	126	31	0.2	1	0.10
271	Taylor 2984 ...	6.0	3	7	14	21.39	133	46	7.4	3	0.11
272	Taylor 2980 ...	5.5	3	7	14	22.04	126	31	26.5	3	0.12
273	66 Aurigæ ...	5.3	...	7	15	49.65	49	5	54.6	3	0.10
274	Taylor 3029 ...	5.9	5	7	17	59.94	146	4	13.8	5	0.15
275	Radcliffe 1949 ...	5.0	...	7	18	22.63	21	17	30.6	3	0.06
276	s Puppis ...	5.7	4	7	18	25.40	121	41	36.1	4	0.05
277	3 Canis Minoris β ...	3.1	...	7	20	38.60	81	28	10.7	13	0.16
278	10 Can. Min. α (Procyon) ...	0.5	...	7	33	1.14	84	28	4.0	4	0.19
279	75 Geminorum σ ...	4.1	...	7	35	48.63	60	49	39.6	3	0.05
280	1 Puppis ...	5.0	3	7	38	41.77	118	7	36.6	3	0.06

255.—Comparison star for Sappho in 1880.

257.—Comparison star for Sylvia in 1882.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
246	24 Geminorum γ ...	+ 3.4647	- 0.0015	+ 0.002	+ 2.685	+ 0.500	+ 0.04	969
247	Taylor 2604 ...	+ 1.3236	0.0000	0.000	+ 2.820	+ 0.190	+ 0.01	Stone
248	Taylor 2607 ...	+ 2.0794	+ 0.0016	...	+ 2.884	+ 0.299	...	...
249	55 Aurigæ ψ^4 ...	+ 4.3776	- 0.0087	- 0.005	+ 2.995	+ 0.630	+ 0.04	973
250	31 Geminorum ξ ...	+ 3.3772	- 0.0017	- 0.009	+ 3.358	+ 0.485	+ 0.20	989
251	43 Camelopardi ...	+ 6.5046	- 0.0459	+ 0.001	+ 3.548	+ 0.933	- 0.02	980
252	Taylor 2672 ...	+ 2.5765	+ 0.0012	...	+ 3.551	+ 0.368	...	...
253	Radcliffe 1813 ...	+ 8.8215	- 0.1153	+ 0.023	+ 3.701	+ 1.265	+ 0.01	Homburg
254	51 Cephei ...	+ 30.1981	- 2.1987	- 0.040	+ 3.859	+ 4.321	+ 0.05	Gr.
255	Lalande 13199 ...	+ 3.2936	- 0.0017	...	+ 3.913	+ 0.469	...	...
256	h^1 Canis Majoris ...	+ 2.2673	+ 0.0014	...	+ 3.985	+ 0.322	...	...
257	15 Lynceis ...	+ 5.2150	- 0.0252	+ 0.000	+ 4.074	+ 0.743	+ 0.12	998
258	14 Canis Majoris θ ...	+ 2.7971	+ 0.0004	- 0.011	+ 4.223	+ 0.397	+ 0.00	1011
259	19 Canis Majoris ...	+ 2.5979	+ 0.0010	+ 0.003	+ 4.376	+ 0.368	- 0.04	1018
260	23 Canis Majoris γ ...	+ 2.7145	+ 0.0005	- 0.002	+ 5.049	+ 0.381	+ 0.00	1028
261	Taylor 2845 ...	+ 1.8497	+ 0.0006	...	+ 5.214	+ 0.259	...	...
262	Taylor 2849 ...	+ 1.5666	- 0.0007	...	+ 5.256	+ 0.219	...	...
263	Taylor 2876 ...	+ 2.4726	+ 0.0011	...	+ 5.592	+ 0.344	...	...
264	18 Lynceis ...	+ 5.2807	- 0.0376	- 0.016	+ 5.648	+ 0.737	+ 0.26	1031
265	Radcliffe 1887 ...	+ 12.9946	- 0.4941	+ 0.009	+ 5.674	+ 1.816	+ 0.02	...
266	Radcliffe 1917 ...	+ 4.5760	- 0.0230	...	+ 5.980	+ 0.634	...	...
267	64 Aurigæ ...	+ 4.1849	- 0.0157	+ 0.001	+ 6.005	+ 0.580	- 0.02	1052
268	55 Geminorum δ ...	+ 3.5905	- 0.0072	- 0.003	+ 6.277	+ 0.495	- 0.00	1062
269	19 Lynceis--2nd ...	+ 4.9199	- 0.0326	- 0.004	+ 6.286	+ 0.679	+ 0.03	1056
270	Taylor 2975 ...	+ 2.1337	+ 0.0012	...	+ 6.367	+ 0.292	...	...
271	Taylor 2984 ...	+ 1.8584	+ 0.0004	...	+ 6.393	+ 0.254	...	...
272	Taylor 2980 ...	+ 2.1339	+ 0.0011	...	+ 6.394	+ 0.292	...	...
273	66 Aurigæ ...	+ 4.1676	- 0.0170	- 0.001	+ 6.516	+ 0.572	- 0.01	1064
274	Taylor 3029 ...	+ 1.1990	- 0.0046	...	+ 6.694	+ 0.162	...	...
275	Radcliffe 1949 ...	+ 6.3041	- 0.0830	+ 0.003	+ 6.725	+ 0.865	+ 0.07	Homburg
276	s Puppis ...	+ 2.2947	+ 0.0011	...	+ 6.729	+ 0.312	...	...
277	3 Canis Minoris β ...	+ 3.2606	- 0.0041	- 0.004	+ 6.911	+ 0.444	+ 0.03	1079
278	10 Canis Minoris α ...	+ 3.1913	- 0.0041	- 0.047	+ 7.918	+ 0.425	+ 1.03	1106
279	75 Geminorum σ ...	+ 3.7543	- 0.0130	+ 0.005	+ 8.142	+ 0.498	+ 0.22	1108
280	1 Puppis ...	+ 2.4230	+ 0.0011	- 0.001	+ 8.371	+ 0.317	- 0.06	1118

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
281	Taylor 3209	5.8	4	7	39	14.33	134	52	11.9	4	0.07
282	Taylor 3265	5.8	2	7	43	54.01	136	18	42.7	2	0.05
283	7 Argus ξ	3.4	...	7	44	14.79	114	33	33.6	4	0.23
284	6 Puppis	5.7	...	7	44	15.86	106	55	25.1	2	0.08
285	Taylor 3275	5.7	3	7	44	46.04	136	46	34.3	3	0.08
286	R. P. L. 49	6.7	...	7	48	0.11	5	36	5.0	12	0.40
287	6 Cancri	5.0	...	7	56	8.75	61	52	14.8	4	0.21
288	Taylor 3399	5.9	4	7	57	52.89	143	40	10.4	4	0.09
289	27 Lyncis	4.8	...	7	59	25.38	38	8	56.7	2	0.06
290	55 Camelopardi	5.5	...	8	0	50.82	21	10	31.2	3	0.09
291	15 Argus ϵ	2.9	...	8	2	26.06	113	57	33.5	3	0.20
292	... ..	10.5	1	8	6	40.30	128	42	29.7	3	0.15
293	17 Cancri β	3.8	...	8	10	0.38	80	26	44.1	14	0.22
294	33 Cancri η	5.5	...	8	25	46.09	69	9	8.4	3	0.27
295	43 Cancri γ	4.8	...	8	36	20.36	68	6	4.8	8	0.21
296	6 Volantis	6.0	2	8	38	37.99	159	57	35.7	2	0.14
297	R. P. L. 60	7.0	...	8	50	2.82	5	20	26.5	3	0.21
298	65 Cancri α	4.3	...	8	51	55.33	77	40	43.0	5	0.18
299	76 Cancri κ	5.0	...	9	1	14.80	78	51	0.1	6	0.21
300	Taylor 4022	6.5	1	9	4	48.82	162	7	13.4	2	0.14
301	22 Hydræ θ	3.9	...	9	8	7.21	87	10	54.5	2	0.15
302	4 Carinae	5.0	2	9	8	33.19	151	49	31.4	2	0.15
303	83 Cancri	6.6	...	9	12	16.89	71	47	11.8	2	0.32
304	25 Ursæ Majoris θ	3.2	...	9	24	49.33	37	46	36.8	1	0.33
305	14 Leonis ϵ	3.8	...	9	34	44.75	79	33	42.4	1	0.33
306	R. P. L. 69	7.9	...	9	37	57.62	2	51	6.4	5	0.21
307	17 Leonis ϵ	3.1	...	9	39	2.11	65	40	26.9	1	0.30
308	R. P. L. 70	5.0	...	9	49	8.78	5	30	18.1	1	0.33
309	29 Leonis π	5.0	...	9	53	52.28	81	22	48.2	1	0.32
310	32 Leonis α (<i>Regulus</i>)	1.4	...	10	1	58.87	77	26	48.6	1	0.30
311	R. P. L. 72	6.0	...	10	11	57.63	5	8	25.0	3	0.78
312	41 Leonis γ^1	2.5	...	10	13	21.34	69	33	5.4	2	0.31
313	47 Leonis ρ	4.0	...	10	26	29.56	80	4	33.2	2	0.34
314	53 Leonis ι	5.3	...	10	42	56.89	78	49	11.5	2	0.34
315	58 Leonis d	5.0	...	10	54	21.76	85	44	17.3	2	0.34

286.—Groombridge 1359.
297.—Carrington 1286.

306.—Carrington 1418.
308.—Carrington 1451.

311.—Groombridge 1620.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
281	Taylor 3209 ...	+ 1.8643	+ 0.0002	...	+ 8.415	+ 0.243	...	...
282	Taylor 3265 ...	+ 1.8141	- 0.0002	...	+ 8.783	+ 0.234	...	...
283	7 Argus ξ ...	+ 2.5234	+ 0.0008	- 0.001	+ 8.810	+ 0.327	- 0.02	1132
284	6 Puppis ...	+ 2.7069	0.0000	...	+ 8.812	+ 0.351	...	...
285	Taylor 3275 ...	+ 1.7959	- 0.0004	...	+ 8.852	+ 0.231	...	...
286	R. P. L. 49 ...	+ 15.2192	- 1.2407	...	+ 9.105	+ 1.974	...	...
287	6 Cancri ...	+ 3.6972	- 0.0148	- 0.003	+ 9.733	+ 0.468	+ 0.04	1149
288	Taylor 3399 ...	+ 1.4809	- 0.0037	...	+ 9.865	+ 0.184	...	...
289	27 Lynceis ...	+ 4.5485	- 0.0414	- 0.008	+ 9.984	+ 0.572	- 0.01	1154
290	55 Camelopardi ...	+ 6.0548	- 0.1190	- 0.000	+ 10.091	+ 0.761	- 0.01	1148
291	15 Argus ϵ ...	+ 2.5609	+ 0.0009	- 0.008	+ 10.211	+ 0.318	- 0.06	1170
292	... ..	+ 2.1605	+ 0.0016	...	+ 10.528	+ 0.263	...	...
293	17 Cancri β ...	+ 3.2620	- 0.0072	- 0.004	+ 10.776	+ 0.397	+ 0.04	1180
294	33 Cancri η ...	+ 3.4819	- 0.0129	- 0.004	+ 11.912	+ 0.404	+ 0.05	1207
295	43 Cancri γ ...	+ 3.4895	- 0.0143	- 0.009	+ 12.644	+ 0.391	+ 0.03	1230
296	0 Volantis ...	+ 0.2506	- 0.0472	...	+ 12.799	+ 0.021	...	...
297	R. P. L. 60 ...	+ 13.6130	- 1.7055	...	+ 13.551	+ 1.457	...	...
298	65 Cancri α ...	+ 3.2860	- 0.0098	+ 0.001	+ 13.672	+ 0.346	+ 0.02	1269
299	76 Cancri κ ...	+ 3.2576	- 0.0093	- 0.003	+ 14.257	+ 0.329	- 0.01	1287
300	Taylor 4022 ...	+ 0.2043	- 0.0613	...	+ 14.474	+ 0.015	...	...
301	22 Hydræ θ ...	+ 3.1172	- 0.0057	+ 0.008	+ 14.673	+ 0.304	+ 0.31	1303
302	ι Carinæ ...	+ 1.3744	- 0.0082	- 0.019	+ 14.700	+ 0.131	0.00	Stone
303	83 Cancri ...	+ 3.3662	- 0.0134	- 0.009	+ 14.919	+ 0.323	+ 0.14	1309
304	25 Ursæ Majoris θ ...	+ 4.1530	- 0.0561	- 0.104	+ 15.631	+ 0.374	+ 0.56	1332
305	14 Leonis σ ...	+ 3.2181	- 0.0093	- 0.010	+ 16.160	+ 0.272	+ 0.02	1360
306	R. P. L. 69 ...	+ 18.6638	- 5.4520	...	+ 16.323	+ 1.574	...	...
307	17 Leonis ϵ ...	+ 3.4210	- 0.0180	- 0.004	+ 16.379	+ 0.282	+ 0.01	1368
308	R. P. L. 70 ...	+ 10.5695	- 1.5352	...	+ 16.873	+ 0.826	...	...
309	29 Leonis π ...	+ 3.1783	- 0.0080	- 0.004	+ 17.093	+ 0.236	+ 0.01	1398
310	32 Leonis α ...	+ 3.2189	- 0.0102	- 0.018	+ 17.453	+ 0.225	- 0.02	1406
311	R. P. L. 72 ...	+ 9.8215	+ 1.5973	- 0.096	+ 17.867	+ 0.642	- 0.04	1399
312	41 Leonis γ^1 ...	+ 3.2960	- 0.0148	+ 0.021	+ 17.921	+ 0.208	+ 0.14	1432
313	47 Leonis ρ ...	+ 3.1651	- 0.0080	- 0.001	+ 18.408	+ 0.176	- 0.01	1467
314	53 Leonis l ...	+ 3.1595	- 0.0080	- 0.002	+ 18.931	+ 0.145	+ 0.02	1500
315	58 Leonis d ...	+ 3.1004	- 0.0039	- 0.002	+ 19.237	+ 0.120	+ 0.01	1526

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
316	R. P. L. 79	7.7	...	10	59	34.02	1	42	31.7	2	0.21
317	68 Leonis δ	2.8	...	11	7	43.45	68	49	7.6	2	0.24
318	12 Crateris δ	3.9	...	11	13	20.47	104	7	43.9	2	0.35
319	84 Leonis τ	5.1	...	11	21	45.94	86	28	57.8	5	0.35
320	91 Leonis υ	4.5	...	11	30	48.23	90	9	40.2	3	0.36
321	94 Leonis β (<i>Donab</i>)	2.2	...	11	42	56.26	74	45	24.4	3	0.36
322	8 Virginis π	4.4	...	11	54	43.39	82	42	56.8	6	0.36
323	R. P. L. 89	6.3	...	11	58	41.67	3	44	53.7	5	0.78
324	2 Corvi ε	3.1	...	12	3	57.32	111	57	7.4	4	0.37
325	Lalande 22945	3.1	5	12	8	51.44	90	39	32.5	5	0.34
326	... ..	3.6	5	12	11	15.17	138	15	25.4	5	0.37
327	15 Virginis η	4.0	...	12	13	45.98	89	59	58.5	4	0.37
328	R. P. L. 93	6.7	...	12	14	20.27	1	38	6.6	5	0.87
329	7 Corvi δ	3.1	...	12	23	39.47	105	50	49.7	7	0.37
330	... ..	9.3	5	12	28	0.70	93	47	0.8	5	0.34
331	9 Corvi β	2.8	...	12	28	5.04	112	43	57.6	5	0.38
332	R. P. L. 99	5.6	...	12	48	15.77	5	56	4.9	1	0.93
333	43 Virginis δ	3.7	...	12	49	33.55	85	56	59.2	4	0.39
334	Lacaille 5335	10.3	2	12	51	38.50	160	11	15.7	2	0.38
335	47 Virginis ε (<i>Vindemiatrix</i>)	3.0	...	12	56	12.21	78	23	42.3	3	0.38
336	51 Virginis θ	4.4	...	13	3	44.29	94	53	51.5	2	0.40
337	42 Comæ α	4.4	...	13	4	8.94	71	50	7.3	3	0.34
338	Taylor 6057	5.6	3	13	4	48.77	149	16	53.6	3	0.36
339	53 Virginis	5.1	...	13	5	40.39	105	33	0.4	5	0.36
340	η Muscæ	5.3	5	13	7	8.32	157	15	29.9	5	0.37
341	67 Virginis α (<i>Spica</i>)	1.2	...	13	18	52.27	100	32	3.5	2	0.33
342	R. P. L. 103	7.0	...	13	19	31.17	4	37	8.1	1	0.35
343	79 Virginis ζ	3.5	...	13	28	34.77	89	58	54.1	3	0.36
344	4 Bootis τ	4.5	...	13	41	33.55	71	56	39.9	6	0.37
345	93 Virginis τ	4.3	...	13	55	32.40	87	52	27.0	3	0.39
346	11 Draconis α	3.6	...	14	1	8.23	25	2	59.6	5	0.37
347	R. P. L. 108	7.8	...	14	1	49.70	3	40	4.6	2	0.63
348	22 Bootis f	5.4	...	14	20	52.54	70	13	57.7	7	0.37
349	36 Bootis ε (<i>Mirac</i>)	2.6	...	14	39	44.77	62	25	7.5	5	0.43
350	109 Virginis	3.7	...	14	40	10.92	87	36	0.7	3	0.38

316.—Carrington 1639.

325.—Comparison star for Hestia in 1880.

332.—Groombridge 1740.

323.—Groombridge 1850.

328.—Groombridge 1884.

342.—Groombridge 2007.

347.—Groombridge 2099

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
316	R. P. L. 79 ...	+ 14.7537	- 8.3238	...	+ 19.361	+ 0.553	...	...
317	68 Leonis δ ...	+ 3.1894	- 0.0132	+ 0.010	+ 19.535	+ 0.098	+ 0.12	1546
318	12 Crateris δ ...	+ 3.0042	+ 0.0064	- 0.011	+ 19.040	+ 0.081	- 0.21	1557
319	84 Leonis τ ...	+ 3.0860	- 0.0020	- 0.001	+ 19.776	+ 0.066	+ 0.01	1570
320	91 Leonis ν ...	+ 3.0718	+ 0.0003	- 0.002	+ 19.891	+ 0.049	- 0.05	1586
321	94 Leonis β ...	+ 3.0994	- 0.0074	- 0.036	+ 19.998	+ 0.025	+ 0.10	1605
322	8 Virginis π ...	+ 3.0762	- 0.0022	- 0.003	+ 20.048	+ 0.002	+ 0.02	1618
323	R. P. L. 89 ...	+ 3.1881	- 0.4868	...	+ 20.054	- 0.006	...	...
324	2 Corvi ϵ ...	+ 3.0816	+ 0.0142	- 0.006	+ 20.051	- 0.016	- 0.02	1626
325	Lalande 22045 ...	+ 3.0729	+ 0.0028	...	+ 20.039	- 0.026	...	...
326	... ..	+ 3.1459	+ 0.0375	...	+ 20.029	- 0.031	...	...
327	15 Virginis η ...	+ 3.0723	+ 0.0027	- 0.006	+ 20.017	- 0.035	+ 0.02	1647
328	R. P. L. 93 ...	+ 0.1410	+ 0.9549	- 0.090	+ 20.015	- 0.010	- 0.08	1672
329	7 Corvi δ ...	+ 3.1114	+ 0.0118	- 0.014	+ 19.947	- 0.055	+ 0.15	1675
330	... ..	+ 3.0831	+ 0.0055	...	+ 19.904	- 0.063	...	...
331	9 Corvi β ...	+ 3.1407	+ 0.0164	- 0.003	+ 19.904	- 0.064	+ 0.05	1685
332	R. P. L. 99 ...	+ 0.3845	+ 0.2160	- 0.020	+ 19.612	- 0.020	- 0.02	1731
333	43 Virginis δ ...	+ 3.0520	+ 0.0025	- 0.034	+ 19.587	- 0.108	+ 0.05	1723
334	Lacaille 5335 ...	+ 3.9014	+ 0.1283	...	+ 19.546	- 0.135	...	...
335	47 Virginis ϵ ...	+ 3.0057	- 0.0007	- 0.019	+ 19.454	- 0.114	- 0.03	1735
336	51 Virginis θ ...	+ 3.1038	+ 0.0078	- 0.004	+ 19.283	- 0.132	+ 0.04	1747
337	42 Comae α ...	+ 2.9511	- 0.0033	- 0.033	+ 19.274	- 0.127	- 0.15	1748
338	Taylor 6057 ...	+ 3.7002	+ 0.0729	...	+ 19.257	- 0.158	...	...
339	53 Virginis ...	+ 3.1775	+ 0.0139	+ 0.004	+ 19.236	- 0.138	+ 0.28	1752
340	η Muscae ...	+ 3.9933	+ 0.1139	- 0.018	+ 19.200	- 0.175	+ 0.04	Stone
341	67 Virginis α ...	+ 3.1562	+ 0.0116	- 0.004	+ 18.878	- 0.163	+ 0.02	1774
342	R. P. L. 103 ...	- 2.5553	+ 0.9351	...	+ 18.859	+ 0.119	...	...
343	79 Virginis ζ ...	+ 3.0721	+ 0.0064	- 0.021	+ 18.575	- 0.176	- 0.06	1789
344	4 Bootis τ ...	+ 2.8855	- 0.0007	- 0.035	+ 18.117	- 0.188	- 0.04	1810
345	93 Virginis τ ...	+ 3.0483	+ 0.0064	- 0.001	+ 17.559	- 0.222	+ 0.03	1829
346	11 Draconis α ...	+ 1.6298	+ 0.0048	- 0.009	+ 17.318	- 0.127	- 0.02	1836
347	R. P. L. 108 ...	- 7.4972	+ 2.3763	...	+ 17.286	+ 0.548	...	...
348	22 Bootis f ...	+ 2.7952	+ 0.0009	- 0.006	+ 16.383	- 0.242	- 0.03	1864
349	36 Bootis ϵ ...	+ 2.6240	- 0.0001	- 0.004	+ 15.376	- 0.252	- 0.00	1890
350	109 Virginis ...	+ 3.0364	+ 0.0073	- 0.009	+ 15.351	- 0.292	+ 0.03	1889

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
351	55 Hydræ ...	5.8	...	14	40	24.05	115	7	9.2	3	0.36
352	56 Hydræ ...	5.7	...	14	40	44.61	115	35	0.6	2	0.36
353	57 Hydræ ...	6.1	...	14	40	56.57	116	8	30.4	4	0.38
354	9 Libræ α^2 ...	3.0	...	14	44	14.48	105	32	31.3	3	0.41
355	43 Bootis ψ ...	4.5	...	14	59	18.24	62	35	1.1	7	0.44
356	O. A. S. 14246 ...	7.3	5	14	59	31.73	111	33	47.2	5	0.37
357	... ..	9.2	5	14	59	31.89	111	23	12.2	5	0.38
358	Taylor 7053 ...	6.3	...	15	2	20.00	144	53	14.3	1	0.37
359	κ Lupi—1st ...	4.5	...	15	3	36.08	138	16	48.3	1	0.38
360	R. P. L. 111 ...	7.0	...	15	3	53.63	5	35	7.8	3	0.08
361	μ Lupi—1st ...	5.1	2	15	10	11.51	137	25	52.9	2	0.36
362	27 Libræ β ...	2.7	...	15	10	33.01	98	56	20.2	10	0.46
363	ν^1 Lupi ...	5.8	...	15	13	47.41	137	29	20.8	1	0.38
364	ϕ^1 Lupi ...	5.2	3	15	14	11.67	125	49	28.2	3	0.38
365	8 Libræ, Var. 5 ...	10.0	4	15	14	30.73	109	57	15.2	4	0.40
366	O. A. S. 14617 ...	9.5	4	15	24	57.56	119	47	3.5	5	0.47
367	5 Cor. Bor. α (<i>Alpha</i>) ...	2.4	...	15	29	36.39	62	52	47.9	4	0.52
368	ϵ Lupi ...	5.1	4	15	20	58.32	132	10	18.7	5	0.42
369	42 Libræ ...	5.2	...	15	33	11.31	113	25	36.6	3	0.40
370	h Lupi ...	5.6	3	15	34	50.48	127	2	17.5	3	0.41
371	ζ Cor. Bor.—2nd ...	5.2	...	15	34	51.51	52	58	26.2	1	0.41
372	15 Ursæ Minoris θ ...	5.3	...	15	34	59.88	12	15	5.0	3	0.46
373	ψ^2 Lupi ...	5.6	3	15	35	2.42	124	19	24.7	5	0.43
374	24 Serpentiis α ...	2.7	...	15	38	21.41	83	11	43.4	5	0.49
375	κ Trianguli Australis ...	5.1	3	15	43	39.33	158	14	35.5	3	0.40
376	37 Serpentiis ϵ ...	3.7	...	15	44	50.08	85	9	34.3	13	0.48
377	R. P. L. 115 ...	7.0	...	15	45	53.13	4	46	51.0	2	0.44
378	Radcliffe 3468 ...	5.3	5	15	49	28.87	33	49	6.6	5	0.41
379	... ..	9.1	3	15	53	17.79	150	8	56.0	4	0.44
380	η Normæ ...	5.6	2	15	54	24.17	138	53	34.5	2	0.41
381	δ Normæ ...	4.9	...	15	58	1.04	134	50	44.9	1	0.42
382	8 Scorpii β^1 ...	3.0	...	15	58	27.53	109	28	29.7	2	0.58
383	8 Scorpii β —2nd ...	5.2	...	15	58	28.09	109	28	17.6	5	0.52
384	6 Herculis ν ...	4.7	...	15	59	3.34	43	37	45.2	3	0.43
385	ϵ^2 Normæ ...	5.7	4	15	59	27.47	147	36	33.0	4	0.43

356—357.—Comparison stars for Ariadne in 1880.
 366.—Comparison star for Nausikaa in 1880.

360.—Groombridge 2213.
 377.—Carrington 2380.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
351	55 Hydræ ...	+ 3.4761	+ 0.0216	- 0.004	+ 15.339	- 0.333	+ 0.03	1885
352	56 Hydræ ...	+ 3.4853	+ 0.0220	- 0.003	+ 15.321	- 0.334	+ 0.03	1886
353	57 Hydræ ...	+ 3.4961	+ 0.0224	(+ 0.012)	+ 15.309	- 0.335	+ 0.03	1887
354	9 Libræ α ² ...	+ 3.3165	+ 0.0154	- 0.009	+ 15.121	- 0.324	+ 0.07	1894
355	43 Bootis ψ ...	+ 2.5835	+ 0.0010	- 0.015	+ 14.223	- 0.271	+ 0.01	1922
356	O. A. S. 14246 ...	+ 3.4450	+ 0.0186	...	+ 14.210	+ 0.360	...	...
357	... ..	+ 3.4417	+ 0.0184	...	+ 14.209	- 0.360	...	...
358	Taylor 7053 ...	+ 4.4304	+ 0.0638	...	+ 14.036	- 0.467	...	...
359	κ Lupi—1st ...	+ 4.1402	+ 0.0476	- 0.020	+ 13.956	- 0.440	+ 0.06	Stone
360	R. P. L. 111 ...	- 6.7575	+ 1.1585	...	+ 13.937	+ 0.703	...	...
361	μ Lupi—1st ...	+ 4.1462	+ 0.0452	- 0.015	+ 13.536	- 0.451	+ 0.08	Stone
362	27 Libræ β ...	+ 3.2277	+ 0.0117	- 0.008	+ 13.511	- 0.353	+ 0.02	1934
363	ν ¹ Lupi ...	+ 4.1637	+ 0.0448	...	+ 13.302	- 0.460	...	...
364	φ ¹ Lupi ...	+ 3.7957	+ 0.0290	...	+ 13.276	- 0.420	...	...
365	δ Libræ ...	+ 3.4366	+ 0.0170	...	+ 13.255	- 0.382	...	...
366	O. A. S. 14617 ...	+ 3.6689	+ 0.0228	...	+ 12.555	- 0.422	...	...
367	5 Coronæ Borealis α ...	+ 2.5298	+ 0.0023	+ 0.009	+ 12.235	- 0.297	+ 0.09	1973
368	ε Lupi... ..	+ 4.0327	+ 0.0345	- 0.019	+ 12.210	- 0.471	- 0.11	Stone
369	42 Libræ ...	+ 3.5367	+ 0.0180	- 0.003	+ 11.986	- 0.418	+ 0.01	1978
370	h Lupi ...	+ 3.8854	+ 0.0283	...	+ 11.869	- 0.460	...	...
371	ζ Coronæ Bor.—2nd... ..	+ 2.2594	+ 0.0021	- 0.004	+ 11.868	- 0.270	0.00	Homburg
372	15 Ursæ Minoris θ ...	- 1.8928	+ 0.1924	- 0.040	+ 11.836	+ 0.219	- 0.01	2008
373	ψ ² Lupi ...	+ 3.8085	+ 0.0256	...	+ 11.855	- 0.452	...	...
374	24 Serpentis α ...	+ 2.9423	+ 0.0062	+ 0.008	+ 11.620	- 0.354	- 0.06	1990
375	κ Trianguli Australis	+ 5.8467	+ 0.1245	- 0.008	+ 11.240	- 0.709	+ 0.04	Stone
376	37 Serpentis ε ...	+ 2.9782	+ 0.0066	+ 0.007	+ 11.154	- 0.365	- 0.06	2005
377	R. P. L. 115 ...	- 10.2507	+ 1.5276	...	+ 11.077	+ 1.242	...	...
378	Radcliffe 3468 ...	+ 1.3915	+ 0.0108	...	+ 10.803	- 0.176	...	...
379	... ..	+ 5.0548	+ 0.0694	...	+ 10.525	- 0.632	...	...
380	η Normæ ...	+ 4.3801	+ 0.0402	...	+ 10.449	- 0.549	...	...
381	δ Normæ ...	+ 4.2181	+ 0.0334	...	+ 10.177	- 0.533	+ 0.02	Stone
382	8 Scorpii β ¹ ...	+ 3.4801	+ 0.0142	- 0.003	+ 10.143	- 0.441	+ 0.03	2034
383	8 Scorpii β—2nd ...	+ 3.4805	+ 0.0142	- 0.003	+ 10.143	- 0.441	+ 0.03	2034
384	6 Herculis υ ...	+ 1.8606	+ 0.0047	+ 0.005	+ 10.098	- 0.239	+ 0.06	2044
385	ε ² Normæ ...	+ 4.3948	+ 0.0586	...	+ 10.069	- 0.621	...	...

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
421	40 Hercules ζ	3·1	...	16	36	45·76	58	10	48·0	5	0·53
422	43 Hercules ι	5·5	...	16	40	4·22	81	11	51·5	2	0·41
423	18 Draconis γ	5·0	...	16	40	5·26	25	14	0·4	5	0·43
424	Radcliffe 3602 ... ..	...	...	16	48	1·09	33	0	10·5	1	0·42
425	52 Hercules	5·0	...	16	45	43·41	43	48	22·1	3	0·61
426	Taylor 7804	7·1	2	16	45	44·66	131	37	26·2	3	0·43
427	Taylor 7805	7·0	2	16	45	46·30	131	38	51·3	3	0·45
428	Taylor 7806	8·0	3	16	45	54·50	131	37	9·1	5	0·52
429	50 Hercules	5·0	...	16	45	57·75	59	59	15·5	5	0·55
430	Taylor 7807	5·6	3	16	45	58·53	132	16	41·8	6	0·52
431	Lacaille 6989	6·2	...	16	46	42·07	159	4	33·3	1	0·41
432	23 Ophiuchi	5·6	...	16	48	10·90	95	57	21·1	3	0·64
433	25 Ophiuchi τ	4·4	...	16	48	19·70	79	38	5·9	4	0·66
434	27 Ophiuchi κ	3·4	...	16	51	59·22	80	26	12·9	5	0·52
435	ε ² Aræ	5·9	...	16	53	33·74	143	3	17·8	1	0·41
436	19 Draconis h ¹	4·7	...	16	55	22·11	24	40	53·4	5	0·46
437	59 Hercules δ	5·3	...	16	57	10·53	56	15	26·1	4	0·42
438	22 Ursæ Minoris ε	4·5	...	16	58	18·76	7	46	3·4	6	0·49
439	Lacaille 7102	5·6	3	16	59	9·71	151	30	55·0	5	0·51
440	Lacaille 7107	6·5	...	17	1	2·42	157	2	27·3	2	0·53
441	ι Scorpæ	5·6	3	17	2	0·70	134	24	1·1	3	0·44
442	21 Draconis μ	5·2	...	17	2	50·70	35	22	13·3	5	0·55
443	35 Ophiuchi η	2·6	...	17	3	29·75	105	34	28·7	5	0·55
444	37 Ophiuchi	5·5	...	17	6	48·51	79	16	5·1	1	0·41
445	36 Ophiuchi A—1st	4·7	...	17	7	58·19	116	25	30·9	2	0·41
446	ι Apodis	5·8	...	17	8	43·44	159	59	37·8	5	0·61
447	64 Hercules α ¹ , Var. I	Var.	...	17	9	10·57	75	28	18·5	3	0·51
448	κ Scorpæ	5·6	2	17	9	15·27	122	31	31·6	2	0·43
449	65 Hercules δ	3·3	...	17	10	6·08	65	1	5·1	5	0·55
450	41 Ophiuchi	5·0	...	17	10	26·97	90	18	28·6	5	0·53
451	39 Ophiuchi (S)	5·2	...	17	10	41·60	114	9	15·8	5	0·58
452	69 Hercules ε	4·9	...	17	13	31·92	52	34	55·1	4	0·42
453	53 Serpentis ν	4·4	...	17	14	4·71	102	43	23·2	2	0·43
454	42 Ophiuchi θ	3·4	...	17	14	38·41	114	52	40·1	2	0·53
455	κ ¹ Aræ	5·8	...	17	16	38·70	140	31	19·8	1	0·54

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.	
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.		
421	40 Hercules ζ	..	+ 2.2969	+ 0.0033	- 0.036	+ 7.124	- 0.316	- 0.41	2127
422	43 Hercules ι	...	+ 2.8777	+ 0.0048	- 0.001	+ 6.853	- 0.397	- 0.05	2131
423	18 Draconis γ	...	+ 0.4002	+ 0.0233	+ 0.000	+ 6.851	- 0.058	+ 0.02	2141
424	Radcliffe 3602	...	+ 1.1289	+ 0.0108	...	+ 6.610	- 0.158	...	...
425	52 Hercules ...	..	+ 1.7511	+ 0.0050	- 0.004	+ 6.386	- 0.245	+ 0.06	2149
426	Taylor 7804 ...	...	+ 4.1985	+ 0.0200	...	+ 6.384	- 0.583	...	...
427	Taylor 7805 ...	...	+ 4.1995	+ 0.0200	...	+ 6.382	- 0.583	...	...
428	Taylor 7806 ...	...	+ 4.1985	+ 0.0200	...	+ 6.371	- 0.583	...	...
429	50 Hercules ...	...	+ 2.3401	+ 0.0034	- 0.003	+ 6.366	- 0.326	- 0.02	2145
430	Taylor 7807 ...	...	+ 4.2250	+ 0.0205	...	+ 6.366	- 0.587	...	...
431	Lacaille 6989	...	+ 6.3916	+ 0.0820	...	+ 6.305	- 0.888	...	...
432	23 Ophiuchi ...	...	+ 3.2050	+ 0.0067	- 0.004	+ 6.182	- 0.447	+ 0.05	2146
433	25 Ophiuchi ι	...	+ 2.8396	+ 0.0043	- 0.005	+ 6.169	- 0.397	+ 0.03	2150
434	27 Ophiuchi κ	...	+ 2.8569	+ 0.0044	- 0.021	+ 5.864	- 0.402	- 0.02	2156
435	ε ² Ara	...	+ 4.7758	+ 0.0288	- 0.001	+ 5.733	- 0.669	+ 0.16	Stone
436	19 Draconis h ¹	...	+ 0.2782	+ 0.0213	+ 0.036	+ 5.581	- 0.041	- 0.04	2169
437	59 Hercules δ	...	+ 2.2126	+ 0.0033	- 0.001	+ 5.427	- 0.313	- 0.01	2165
438	22 Ursæ Minoris ε	...	- 6.3758	+ 0.3093	+ 0.009	+ 5.333	+ 0.894	+ 0.00	2201
439	Lacaille 7102	...	+ 5.4499	+ 0.0443	- 0.003	+ 5.262	- 0.768	+ 0.04	Stone
440	Lacaille 7107	...	+ 6.1240	+ 0.0577	...	+ 5.103	- 0.865	...	...
441	ι Scorpis	...	+ 4.3398	+ 0.0180	...	+ 5.020	- 0.615	...	...
442	21 Draconis μ	...	+ 1.2473	+ 0.0078	- 0.011	+ 4.949	- 0.178	- 0.08	2175
443	35 Ophiuchi η	...	+ 3.4337	+ 0.0073	+ 0.000	+ 4.895	- 0.487	- 0.10	2171
444	37 Ophiuchi ...	...	+ 2.8257	+ 0.0038	- 0.002	+ 4.613	- 0.403	+ 0.03	2178
445	36 Ophiuchi λ	...	+ 3.7196	+ 0.0093	- 0.039	+ 4.513	- 0.530	+ 1.14	2176
446	ι Apodis	...	+ 6.6526	+ 0.0645	+ 0.007	+ 4.450	- 0.947	+ 0.06	Stone
447	64 Hercules α ¹	...	+ 2.7344	+ 0.0035	- 0.002	+ 4.410	- 0.391	- 0.03	2183
448	ι Scorpis	...	+ 3.9040	+ 0.0107	...	+ 4.404	- 0.557	...	...
449	65 Hercules δ	...	+ 2.4642	+ 0.0032	- 0.003	+ 4.331	- 0.353	+ 0.16	2185
450	41 Ophiuchi ...	...	+ 3.0792	+ 0.0046	- 0.004	+ 4.302	- 0.440	+ 0.06	2184
451	39 Ophiuchi (S)	...	+ 3.6580	+ 0.0083	- 0.006	+ 4.281	- 0.523	+ 0.02	2181
452	69 Hercules ε	...	+ 2.0705	+ 0.0033	- 0.005	+ 4.038	- 0.298	- 0.08	2195
453	53 Serpentis ν	...	+ 3.3681	+ 0.0060	+ 0.001	+ 3.902	- 0.483	- 0.03	2190
454	42 Ophiuchi θ	...	+ 3.6801	+ 0.0080	- 0.002	+ 3.944	- 0.528	+ 0.04	2189
455	κ ¹ Ara	...	+ 4.6665	+ 0.0177	...	+ 3.770	- 0.670	...	...

Mean Positions of Stars for 1880, January 1st.

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
456	κ^2 Arae	5.6	2	17	17	51.21	140	31	17.7	3	0.47
457	Taylor 8071	4.5	...	17	20	15.84	94	58	44.6	2	0.43
458	49 Ophiuchi σ	4.4	...	17	20	33.63	85	45	13.9	12	0.58
459	σ Arae	5.6	2	17	26	48.81	136	25	14.5	2	0.41
460	Taylor 8122	5.5	4	17	28	16.96	128	32	55.1	5	0.46
461	55 Ophiuchi α	2.2	...	17	29	21.77	77	21	4.1	3	0.59
462	24 Draconis ν^1	4.9	...	17	29	48.71	34	43	58.3	5	0.54
463	25 Draconis ν^4	4.8	...	17	29	53.94	34	44	40.4	5	0.60
464	57 Ophiuchi μ	4.7	...	17	31	19.39	98	2	38.6	1	0.41
465	Taylor 8150	7.0	1	17	32	12.01	122	7	52.2	2	0.53
466	27 Draconis <i>f</i>	5.3	...	17	32	26.52	21	47	19.7	4	0.47
467	60 Ophiuchi β	2.9	...	17	37	32.65	85	22	50.8	10	0.61
468	28 Draconis ω	4.9	...	17	37	38.99	21	11	11.6	3	0.42
469	86 Herculis μ	3.5	...	17	41	45.72	62	12	28.0	8	0.51
470	ι^2 Scorpii	5.7	3	17	41	47.49	130	2	58.6	3	0.42
471	92 Herculis ξ	3.9	...	17	53	6.04	60	44	18.0	2	0.41
472	94 Herculis ν	4.6	...	17	53	54.42	59	47	56.9	4	0.53
473	66 Ophiuchi	4.8	...	17	54	19.15	85	37	22.4	3	0.44
474	67 Ophiuchi	4.0	...	17	54	38.16	87	3	38.9	5	0.53
475	93 Herculis	4.5	...	17	54	42.84	73	14	27.3	3	0.58
476	35 Draconis	5.1	...	17	54	49.32	13	1	18.3	5	0.66
477	69 Ophiuchi τ	4.9	...	17	56	32.88	98	10	42.7	1	0.43
478	τ Pavonis	4.6	...	17	57	1.73	153	40	15.9	4	0.66
479	72 Ophiuchi	3.8	...	18	1	39.55	80	27	6.5	6	0.62
480	13 Sagittarii μ^1	4.1	...	18	6	35.15	111	5	18.5	3	0.50
481	40 Draconis	5.8	...	18	9	1.42	10	0	57.9	3	0.62
482	41 Draconis	6.2	...	18	9	7.31	10	0	47.2	5	0.65
483	23 Ursae Minoris δ	4.3	...	18	11	2.94	3	23	26.7	3	0.29
484	36 Draconis	5.0	...	18	13	12.22	25	38	38.8	5	0.51
485	58 Serpentis η	3.4	...	18	15	6.01	92	55	42.2	5	0.66
486	22 Sagittarii λ	3.1	...	18	20	33.82	115	29	8.1	6	0.68
487	44 Draconis χ	3.7	...	18	23	13.12	17	19	10.8	4	0.57
488	3 Lyrae α (<i>Vega</i>)	0.2	...	18	32	52.48	51	19	37.4	5	0.68
489	46 Draconis <i>c</i>	5.2	...	18	40	18.42	34	34	51.1	3	0.61
490	4 Lyrae ϵ^1 —2nd... ..	6.0	...	18	40	21.78	50	27	13.9	5	0.50

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Procession.	Secular Variation.	Proper Motion.	Annual Procession.	Secular Variation.	Proper Motion.	
456	κ^2 Arge ...	+ 4.6680	+ 0.0172	...	+ 3.667	- 0.671	...	...
457	Taylor 8071 ...	+ 3.1870	+ 0.0046	...	+ 3.460	- 0.459	...	...
458	49 Ophiuchi σ ...	+ 2.9745	+ 0.0037	- 0.002	+ 3.434	- 0.428	- 0.02	2206
459	σ Arge ...	+ 4.4627	+ 0.0120	...	+ 2.900	- 0.645	...	...
460	Taylor 8122 ...	+ 4.1273	+ 0.0087	...	+ 2.766	- 0.597	...	...
461	55 Ophiuchi α ...	+ 2.7750	+ 0.0030	+ 0.007	+ 2.673	- 0.402	+ 0.22	2218
462	24 Draconis ν^1 ...	+ 1.1607	+ 0.0058	+ 0.018	+ 2.634	- 0.169	- 0.05	2222
463	25 Draconis ν^2 ...	+ 1.1614	+ 0.0058	+ 0.018	+ 2.627	- 0.169	- 0.04	2224
464	57 Ophiuchi μ ...	+ 3.2597	+ 0.0041	- 0.003	+ 2.502	- 0.473	+ 0.01	2220
465	Taylor 8150 ...	+ 3.9057	+ 0.0066	0.000	+ 2.427	- 0.566	0.00	Stone
466	27 Draconis f ...	- 0.2479	+ 0.0153	- 0.007	+ 2.405	+ 0.035	- 0.13	2234
467	60 Ophiuchi β ...	+ 2.9649	+ 0.0030	- 0.004	+ 1.961	- 0.431	- 0.17	2229
468	28 Draconis ω ...	- 0.3603	+ 0.0139	+ 0.002	+ 1.953	+ 0.051	- 0.31	2238
469	86 Hercules μ ...	+ 2.3698	+ 0.0025	- 0.024	+ 1.594	- 0.346	+ 0.75	2237
470	ι^2 Scorpis ...	+ 4.1926	+ 0.0059	...	+ 1.591	- 0.610	...	...
471	92 Hercules ξ ...	+ 2.3236	+ 0.0023	+ 0.006	+ 0.603	- 0.339	+ 0.03	2258
472	94 Hercules ν ...	+ 2.2945	+ 0.0023	- 0.001	+ 0.532	- 0.334	- 0.01	2261
473	66 Ophiuchi ...	+ 2.9699	+ 0.0021	- 0.002	+ 0.497	- 0.433	- 0.02	2257
474	67 Ophiuchi ...	+ 3.0037	+ 0.0021	+ 0.002	+ 0.469	- 0.438	+ 0.01	2259
475	93 Hercules ...	+ 2.6698	+ 0.0022	- 0.001	+ 0.463	- 0.389	- 0.01	2262
476	35 Draconis ...	- 2.7065	+ 0.0124	+ 0.014	+ 0.413	+ 0.395	- 0.24	2287
477	69 Ophiuchi τ ...	+ 3.2644	+ 0.0021	+ 0.002	+ 0.302	- 0.476	+ 0.01	2265
478	π Pavonis ...	+ 5.7737	+ 0.0034	0.000	+ 0.260	- 0.842	+ 0.22	Stone
479	72 Ophiuchi ...	+ 2.8474	+ 0.0019	- 0.006	- 0.145	- 0.415	- 0.09	2275
480	13 Sagittarii μ^1 ...	+ 3.5876	+ 0.0009	- 0.001	- 0.576	- 0.523	- 0.00	2284
481	40 Draconis ...	- 4.4909	- 0.0226	+ 0.022	- 0.789	+ 0.654	- 0.13	2318
482	41 Draconis ...	- 4.4933	- 0.0229	+ 0.020	- 0.798	+ 0.655	- 0.13	2321
483	23 Ursæ Minoris δ ...	- 19.4650	- 0.3213	+ 0.026	- 0.966	+ 2.835	- 0.04	2395
484	36 Draconis ...	+ 0.2920	- 0.0006	+ 0.052	- 1.154	- 0.042	- 0.01	2309
485	58 Serpentis η ...	+ 3.1405	+ 0.0010	- 0.040	- 1.321	- 0.456	+ 0.68	2298
486	22 Sagittarii λ ...	+ 3.7070	- 0.0013	- 0.005	- 1.797	- 0.637	+ 0.20	2310
487	44 Draconis χ ...	- 1.1930	- 0.0148	+ 0.113	- 2.027	+ 0.173	+ 0.37	2337
488	3 Lyræ α ...	+ 2.0133	+ 0.0016	+ 0.017	- 2.867	- 0.290	- 0.30	2341
489	46 Draconis c ...	+ 1.1629	- 0.0013	- 0.004	- 3.509	- 0.165	- 0.02	2360
490	4 Lyræ ϵ^1 —2nd ...	+ 1.9856	+ 0.0014	- 0.002	- 3.513	- 0.283	- 0.08	2355

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
491	5 Lyræ ϵ^2 —2nd ...	5.5	...	18	40	24.23	50	30	42.0	4	0.63
492	6 Lyræ ζ^1 ...	4.3	...	18	40	38.37	52	31	8.1	5	0.66
493	7 Lyræ ζ^2 ...	5.9	...	18	40	40.06	52	31	46.7	4	0.68
494	Radcliffe 4070 ...	5.8	...	18	44	2.01	37	8	35.1	4	0.72
495	κ Pavonis, Var. ...	5.0	2	18	44	33.99	157	22	51.2	5	0.74
496	10 Lyræ β^1 , Var. 1 ...	var.	...	18	45	38.80	56	46	33.3	1	0.52
497	ω Pavonis ...	5.4	...	18	47	56.25	150	21	20.3	1	0.41
498	B. F. 2577 ...	5.4	...	18	48	45.80	16	3	4.8	5	0.70
499	Radcliffe 4109 ...	6.0	...	18	48	53.42	37	10	42.3	4	0.63
500	47 Draconis σ ...	4.6	...	18	49	25.79	30	45	26.8	2	0.64
501	11 Lyræ δ^1 ...	5.3	...	18	49	31.99	53	10	38.0	4	0.63
502	50 Draconis ...	6.0	...	18	50	14.11	14	42	28.1	5	0.74
503	θ Serpentis—2nd ...	5.1	...	18	50	16.68	85	57	9.1	3	0.62
504	12 Lyræ δ^2 ...	4.5	...	18	50	18.33	53	15	10.6	5	0.69
505	R. P. L. 131 ...	6.5	...	18	53	59.45	3	26	41.5	1	0.21
506	13 Aquilæ ϵ ...	4.1	...	18	54	10.42	75	5	35.1	1	0.73
507	52 Draconis ν ...	4.8	...	18	55	51.80	18	51	44.6	5	0.66
508	17 Aquilæ ζ ...	3.1	...	18	59	53.53	76	18	47.5	8	0.69
509	25 Aquilæ ω ...	5.1	...	19	12	10.92	78	37	10.5	10	0.69
510	Lacaille 8036—1st ...	8.0	...	19	12	37.96	161	41	38.6	5	0.74
511	30 Aquilæ δ ...	3.5	...	19	19	26.80	87	7	23.0	18	0.70
512	51 Sagittarii h^1 , Var. ...	var.	...	19	28	44.48	114	58	47.6	5	0.69
513	52 Sagittarii, h^2 ...	4.6	...	19	29	24.14	115	8	47.6	7	0.72
514	50 Aquilæ γ ...	2.8	...	19	40	33.27	79	40	39.9	13	0.73
515	λ Ursæ Minoris ...	6.5	...	19	44	11.41	1	3	21.4	1	0.61
516	13 Vulpeculæ ...	4.7	...	19	48	21.45	66	13	56.2	1	0.61
517	58 Sagittarii ω ...	5.0	...	19	48	29.25	116	36	58.2	1	0.72
518	60 Aquilæ β ...	4.0	...	19	49	25.07	83	53	27.8	7	0.72
519	65 Aquilæ θ ...	3.4	...	20	5	6.77	91	10	34.1	16	0.73
520	6 Capricorni α^2 ...	3.8	...	20	11	23.68	102	54	55.0	8	0.74
521	1 Cephei κ ...	4.4	...	20	12	54.42	12	39	1.5	5	0.66
522	11 Capricorni ρ ...	5.0	...	20	22	0.79	108	12	32.3	1	0.67
523	V Capricorni, Var. 3 ...	9.3	5	20	23	49.85	102	37	50.1	10	0.70
524	R. P. L. 141 ...	7.8	...	20	25	41.63	5	17	5.5	16	0.38
525	R. P. L. 143 ...	6.7	...	20	27	26.37	5	15	16.5	3	0.23

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
491	5 Lyræ ϵ^2 2nd. ...	+ 1.9879	+ 0.0014	- 0.001	- 3.517	- 0.283	- 0.07	2356
492	6 Lyræ ζ^1 ...	+ 2.0633	+ 0.0014	+ 0.001	- 3.540	- 0.294	- 0.02	2357
493	7 Lyræ ζ^2 ...	+ 2.0637	+ 0.0014	+ 0.001	- 3.540	- 0.294	- 0.03	2358
494	Radcliffe 4070 ...	+ 1.3399	- 0.0008	...	- 3.830	- 0.190	...	...
495	κ Pavonis ...	+ 6.2205	- 0.0437	...	- 3.874	- 0.889	...	...
496	10 Lyræ β^1 ...	+ 2.2140	+ 0.0015	- 0.001	- 3.968	- 0.315	- 0.02	2369
497	ω Pavonis ...	+ 5.3703	- 0.0287	...	- 4.164	- 0.765	...	...
498	B. F. 2577 ...	- 1.4646	- 0.0418	...	- 4.234	+ 0.211	...	...
499	Radcliffe 4109 ...	+ 1.3495	- 0.0011	...	- 4.246	- 0.190	...	...
500	47 Draconis σ ...	+ 0.8779	- 0.0045	+ 0.009	- 4.290	- 0.123	- 0.02	2386
501	11 Lyræ δ^1 ...	+ 2.0946	+ 0.0013	- 0.002	- 4.301	- 0.296	- 0.00	2380
502	50 Draconis ...	- 1.8988	- 0.0542	- 0.003	- 4.360	+ 0.272	- 0.07	2404
503	0 Serpentes ...	+ 2.4799	- 0.0005	+ 0.001	- 4.364	- 0.422	- 0.06	2377
504	12 Lyræ δ^2 ...	+ 2.0081	+ 0.0013	- 0.002	- 4.367	- 0.207	- 0.02	2383
505	R. P. L. 131 ...	- 18.5182	- 1.5040	...	- 4.681	+ 2.630	...	...
506	13 Aquilæ ϵ ...	+ 2.7263	+ 0.0004	- 0.005	- 4.696	- 0.385	+ 0.08	2390
507	52 Draconis ν ...	- 0.7249	- 0.0306	+ 0.010	- 4.840	+ 0.105	- 0.03	2411
508	17 Aquilæ ζ ...	+ 2.7578	+ 0.0003	- 0.003	- 5.181	- 0.387	+ 0.09	2405
509	25 Aquilæ ω ...	+ 2.8165	- 0.0003	- 0.001	- 6.212	- 0.388	- 0.03	2432
510	Lacaille 8036 ...	+ 6.9119	- 0.1021	...	- 6.250	- 0.955	...	...
511	30 Aquilæ δ ...	+ 3.0091	- 0.0018	+ 0.015	- 6.814	- 0.410	- 0.09	2451
512	51 Sagittarii h^1 ...	+ 3.6490	- 0.0100	- 0.001	- 7.573	- 0.491	+ 0.02	2475
513	52 Sagittarii h^2 ...	+ 3.6527	- 0.0102	+ 0.002	- 7.627	- 0.490	+ 0.01	2478
514	50 Aquilæ γ ...	+ 2.8518	- 0.0011	- 0.001	- 8.519	- 0.373	- 0.01	2511
515	λ Ursæ Minoris ...	- 62.0563	- 29.4217	- 0.050	- 8.806	+ 8.136	+ 0.00	2795
516	13 Vulpeculæ ...	+ 2.5481	+ 0.0008	+ 0.001	- 9.132	- 0.327	- 0.04	2537
517	58 Sagittarii ω ...	+ 3.6686	- 0.0131	+ 0.013	- 9.142	- 0.473	- 0.09	2528
518	60 Aquilæ β ...	+ 2.9452	- 0.0020	+ 0.001	- 9.215	- 0.378	+ 0.47	2538
519	65 Aquilæ θ ...	+ 3.0958	- 0.0042	- 0.000	- 10.411	- 0.382	- 0.01	2576
520	6 Capricorni α^2 ...	+ 3.3299	- 0.0084	+ 0.002	- 10.878	- 0.403	- 0.02	2595
521	1 Cephei κ ...	- 1.9102	- 0.1651	- 0.002	- 10.988	+ 0.236	- 0.01	2632
522	11 Capricorni ρ ...	+ 3.4303	- 0.0115	- 0.003	- 11.646	- 0.403	+ 0.01	2626
523	V Capricorni ...	+ 3.3148	- 0.0089	...	- 11.775	- 0.387	...	...
524	R. P. L. 141 ...	- 8.5568	- 1.2590	...	- 11.907	- 1.009	...	...
525	R. P. L. 143 ...	- 8.5590	- 1.2799	...	- 12.029	+ 1.004	...	...

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
526	2 Delphini ε	4.1	...	20	27	28.67	79	6	11.1	2	0.77
527	2 Cephei θ	4.3	...	20	27	33.88	27	24	29.0	4	0.66
528	2 Aquarii ε	3.8	...	20	41	10.69	99	56	1.5	8	0.73
529	32 Vulpeculæ	5.1	...	20	49	26.79	62	28	50.6	4	0.79
530	76 Draconis	5.6	...	20	51	10.75	7	54	52.8	5	0.16
531	Radcliffe 5066	5.0	...	20	52	59.56	9	53	53.9	3	0.67
532	23 Capricorni θ	4.3	...	20	59	11.94	107	42	30.6	5	0.78
533	ο Pavonis	5.5	...	21	2	3.48	160	36	49.4	4	0.74
534	.. ... ..	9.9	4	21	2	50.78	120	53	46.0	5	0.75
535	... ..	8.5	5	21	4	53.33	121	4	39.1	5	0.75
536	64 Cygni ζ	3.5	...	21	7	49.72	60	15	50.5	2	0.80
537	... ..	9.4	4	21	9	28.57	120	47	4.9	5	0.70
538	O. A. S. 21345	8.4	5	21	15	32.84	119	56	42.0	5	0.69
539	Brisbane 7028	9.4	2	21	21	59.14	147	23	39.9	4	0.75
540	... ..	9.5	1	21	22	22.91	147	23	52.5	1	0.79
541	22 Aquarii β	3.1	...	21	25	14.42	96	5	53.1	11	0.76
542	8 Pegasi ε	2.4	...	21	38	17.52	80	40	26.9	6	0.81
543	78 Draconis	5.4	...	21	41	35.98	18	13	46.8	6	0.73
544	10 Cephei ν	4.5	...	21	41	59.03	29	25	57.1	4	0.72
545	U Cephei, Var. 5	6.8	4	21	44	53.73	20	24	19.4	5	0.76
546	16 Pegasi	5.0	...	21	47	36.12	64	38	17.3	9	0.78
547	W. B. E. XXI. 1334	8.0	2	21	59	11.99	98	16	39.2	5	0.81
548	34 Aquarii α	3.2	...	21	59	37.09	90	54	5.9	4	0.78
549	17 Cephei ξ—2nd	4.4	...	22	0	18.97	25	57	21.2	5	0.72
550	... ..	9.5	5	22	1	44.02	98	31	57.2	5	0.82
551	15 Piscis Australis	5.3	...	22	3	6.69	123	8	13.4	2	0.69
552	W. B. E. XXII. 14	7.0	...	22	3	9.96	98	7	16.6	5	0.81
553	26 Pegasi θ	3.8	...	22	4	8.82	84	23	29.4	3	0.73
554	Radcliffe 5591	5.2	3	22	6	29.96	39	46	7.7	4	0.74
555	24 Cephei	5.0	...	22	7	29.76	18	14	58.1	2	0.72
556	Radcliffe 5612	5.3	2	22	8	43.63	50	52	47.2	3	0.70
557	μ ³ Gruis	5.4	...	22	9	12.83	132	13	25.3	4	0.77
558	43 Aquarii θ	4.3	...	22	10	30.03	98	22	48.0	9	0.83
559	23 Cephei ε	4.2	...	22	10	36.95	33	33	14.3	3	0.74
560	47 Aquarii	5.4	...	22	14	59.16	112	11	55.6	3	0.72

534—535—537—538.—Comparison stars for Sylvia in 1880.

547—550—552.—Comparison stars for Camilla in 1880.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
526	2 Delphini ϵ ...	+ 2.8664	- 0.0013	- 0.001	- 12.033	- 0.330	+ 0.02	2642
527	2 Cephei θ ...	+ 1.0103	- 0.0147	+ 0.005	- 12.039	- 0.119	+ 0.03	2651
528	2 Aquarii ϵ ...	+ 3.2509	- 0.0084	- 0.000	- 12.969	- 0.356	+ 0.03	2681
529	32 Vulpeculæ ...	+ 2.5558	+ 0.0026	- 0.002	- 13.513	- 0.270	+ 0.00	2709
530	76 Draconis ...	- 3.9839	- 0.5233	+ 0.014	- 13.626	+ 0.429	- 0.01	2754
531	Radcliffe 5066 ...	- 2.5085	- 0.3095	...	- 13.739	+ 0.271	...	...
532	23 Capricorni θ ...	+ 3.3752	- 0.0128	+ 0.004	- 14.130	- 0.344	+ 0.05	2733
533	σ Pavonis ...	+ 5.7346	- 0.1714	0.000	- 14.308	- 0.582	+ 0.20	Stone.
534	... ..	+ 3.6319	- 0.0223	...	- 14.355	- 0.365	...	...
535	... ..	+ 3.6298	- 0.0226	...	- 14.480	- 0.361	...	...
536	64 Cygni ζ ...	+ 2.5511	+ 0.0038	- 0.002	- 14.656	- 0.248	+ 0.07	2760
537	... ..	+ 3.6117	- 0.0225	...	- 14.755	- 0.352	...	...
538	O. A. S. 21345 ...	+ 3.5787	- 0.0220	...	- 15.109	- 0.338	...	...
539	Brisbane 7028 ...	+ 4.4019	- 0.0723	...	- 15.473	- 0.402	...	...
540	... ..	+ 4.4034	- 0.0722	...	- 15.496	- 0.402	...	...
541	22 Aquarii β ...	+ 3.1615	- 0.0071	- 0.001	- 15.653	- 0.282	+ 0.00	2797
542	8 Pegasus ϵ ...	+ 2.9451	- 0.0005	+ 0.001	- 16.341	- 0.242	- 0.01	2835
543	78 Draconis ...	+ 0.7673	- 0.0404	- 0.014	- 16.507	- 0.057	+ 0.06	2861
544	10 Cephei ν ...	+ 1.7301	+ 0.0019	- 0.000	- 16.527	- 0.136	+ 0.01	2857
545	U Cephei ...	+ 1.0743	- 0.0232	...	- 16.669	- 0.080	...	...
546	16 Pegasus ...	+ 2.7263	+ 0.0052	- 0.001	- 16.800	- 0.210	+ 0.00	2864
547	W. B. E. XXI. 1334 ...	+ 3.1701	- 0.0078	...	- 17.332	- 0.226	...	...
548	34 Aquarii α ...	+ 3.0829	- 0.0041	- 0.001	- 17.351	- 0.219	- 0.00	2890
549	17 Cephei ξ ...	+ 1.7022	+ 0.0026	+ 0.028	- 17.381	- 0.117	- 0.07	2907
550	... ..	+ 3.1712	- 0.0078	...	- 17.442	- 0.222	...	...
551	15 Piscis Australis ...	+ 3.4983	- 0.0256	...	- 17.502	- 0.242	...	...
552	W. B. E. XXII. 14 ...	+ 3.1654	- 0.0075	...	- 17.508	- 0.218	...	...
553	26 Pegasus θ ...	+ 3.0087	- 0.0012	+ 0.018	- 17.545	- 0.205	- 0.04	2914
554	Radcliffe 5591 ...	+ 2.3088	+ 0.0126	...	- 17.645	- 0.152	...	...
555	24 Cephei ...	+ 1.1610	- 0.0217	+ 0.002	- 17.686	- 0.072	+ 0.01	2932
556	Radcliffe 5612 ...	+ 2.5650	+ 0.0111	...	- 17.736	- 0.167	...	...
557	μ^3 Gruis ...	+ 3.6362	- 0.0365	...	- 17.756	- 0.240	...	...
558	43 Aquarii θ ...	+ 3.1628	- 0.0075	+ 0.006	- 17.808	- 0.205	+ 0.02	2929
559	23 Cephei ϵ ...	+ 2.1464	+ 0.0128	+ 0.054	- 17.811	- 0.136	- 0.03	2937
560	47 Aquarii ...	+ 3.3136	- 0.0160	- 0.003	- 17.985	- 0.206	+ 0.07	2940

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
561	48 Aquarii γ	4.1	...	22	15	27.44	91	59	28.5	12	0.82
562	2 Lacertæ	4.8	...	22	16	3.93	44	4	0.7	4	0.75
563	8 Tucanæ	4.8	...	22	18	46.82	155	34	35.8	3	0.76
564	R. P. L. 150	5.5	...	22	22	37.49	4	29	47.5	4	0.67
565	7 Lacertæ α	3.9	...	22	26	20.71	40	20	2.6	2	0.73
566	59 Aquarii ν	5.2	...	22	28	7.68	111	19	18.5	5	0.74
567	62 Aquarii η	4.2	...	22	29	11.32	90	44	6.3	7	0.83
568	42 Pegasi ζ	3.6	...	22	35	28.53	79	47	39.1	9	0.83
569	ρ Gruis	5.2	...	22	36	32.15	132	2	21.1	4	0.74
570	η Gruis	5.1	...	22	38	15.30	144	7	49.5	3	0.76
571	32 Cephei ϵ	3.6	...	22	45	24.56	24	25	49.0	3	0.77
572	ρ Indi	6.2	...	22	46	17.27	160	42	50.7	3	0.76
573	73 Aquarii λ	3.8	...	22	46	21.12	98	13	2.5	7	0.86
574	54 Pegasi α (<i>Markab</i>)	2.6	...	22	58	46.90	75	26	24.8	3	0.83
575	86 Aquarii c^1	4.8	...	23	0	13.99	114	23	27.3	3	0.76
576	56 Pegasi	4.9	...	23	1	15.97	65	10	43.3	5	0.79
577	88 Aquarii c^2	3.6	...	23	3	2.75	111	49	21.9	5	0.80
578	ϵ Gruis	3.9	...	23	3	33.75	135	53	48.0	3	0.81
579	33 Cephei π	4.5	...	23	4	5.01	15	15	38.7	5	0.83
580	6 Piscium γ	3.8	...	23	10	56.62	87	22	22.2	7	0.85
581	8 Andromedæ	4.9	...	23	12	11.00	41	38	21.3	1	0.75
582	95 Aquarii ψ^3	5.1	...	23	12	43.15	100	15	59.2	5	0.77
583	63 Pegasi ν	4.6	...	23	19	23.33	67	15	23.5	2	0.76
584	8 Piscium κ	5.0	...	23	20	46.83	89	24	2.6	6	0.82
585	Radcliffe 6084	5.5	2	23	22	12.18	20	17	59.4	4	0.77
586	R. P. L. 153	5.7	...	23	27	48.79	3	21	18.9	4	0.30
587	... ..	9.0	2	23	29	48.36	138	7	48.5	2	0.81
588	16 Andromedæ λ	4.0	...	23	31	41.31	44	11	30.4	2	0.76
589	17 Andromedæ ι	4.3	...	23	32	15.00	47	23	43.7	3	0.77
590	6 Phœnicis—2nd	6.5	...	23	33	1.25	137	18	13.4	3	0.84
591	... ..	9.5	5	23	33	26.13	138	15	14.3	5	0.84
592	... ..	6.7	2	23	33	32.86	137	59	28.5	2	0.88
593	102 Aquarii ω^1	5.2	...	23	33	33.55	104	53	6.7	5	0.80
594	17 Piscium ι	4.3	...	23	33	46.68	85	1	24.4	1	0.75
595	19 Andromedæ κ	4.4	...	23	34	29.87	46	19	47.1	3	0.81

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Procession.	Secular Variation.	Proper Motion.	Annual Procession.	Secular Variation.	Proper Motion.	
561	48 Aquarii γ ...	+ 3.0928	- 0.0042	+ 0.007	- 18.004	- 0.191	- 0.02	2943
562	2 Lacertæ ...	+ 2.4672	+ 0.0138	- 0.001	- 18.028	- 0.150	+ 0.02	2948
563	8 Tucanæ ...	+ 4.3307	- 0.1121	0.000	- 18.120	- 0.263	0.00	Stone
564	R. P. L. 150 ...	- 3.9361	- 1.2322	+ 0.052	- 18.271	+ 0.245	- 0.04	2993
565	7 Lacertæ α ...	+ 2.4467	+ 0.0166	+ 0.013	- 18.403	- 0.134	- 0.01	2975
566	59 Aquarii ν ...	+ 3.2759	- 0.0151	+ 0.014	- 18.464	- 0.179	+ 0.15	2976
567	62 Aquarii η ...	+ 3.0789	- 0.0031	+ 0.006	- 18.500	- 0.166	+ 0.11	2979
568	42 Pegasi ζ ...	+ 2.9855	+ 0.0023	+ 0.004	- 18.705	- 0.149	+ 0.02	2992
569	ρ Gruis ...	+ 3.5017	- 0.0349	...	- 18.739	- 0.175	...	...
570	η Gruis ...	+ 3.7178	- 0.0577	- 0.002	- 18.792	- 0.182	0.00	Stone
571	32 Cephei ι ...	+ 2.1313	+ 0.0225	- 0.014	- 19.002	- 0.092	+ 0.14	3022
572	ρ Indi... ..	+ 4.2800	- 0.1477	...	- 19.026	- 0.190	...	...
573	73 Aquarii λ ...	+ 3.1333	- 0.0063	- 0.002	- 19.027	- 0.137	- 0.04	3019
574	54 Pegasi α ...	+ 2.9807	+ 0.0056	+ 0.003	- 19.342	- 0.107	+ 0.03	3050
575	86 Aquarii c^1 ...	+ 3.2286	- 0.0159	+ 0.004	- 19.376	- 0.114	- 0.00	3053
576	56 Pegasi ...	+ 2.9156	+ 0.0108	- 0.001	- 19.399	- 0.100	+ 0.03	3057
577	88 Aquarii c^2 ...	+ 3.2040	- 0.0139	+ 0.001	- 19.438	- 0.107	- 0.05	3062
578	ι Gruis ...	+ 3.4086	- 0.0378	+ 0.007	- 19.450	- 0.114	+ 0.04	Stone
579	33 Cephei π ...	+ 1.8887	+ 0.0236	+ 0.004	- 19.460	- 0.059	+ 0.04	3074
580	6 Piscium γ ...	+ 3.0592	+ 0.0005	+ 0.049	- 19.596	- 0.087	- 0.02	3082
581	8 Andromedæ ...	+ 2.7609	+ 0.0255	+ 0.002	- 19.618	- 0.045	+ 0.01	3089
582	95 Aquarii ψ^2 ...	+ 3.1219	- 0.0061	+ 0.002	- 19.629	- 0.086	- 0.01	3087
583	68 Pegasi ν ...	+ 2.9735	+ 0.0111	+ 0.011	- 19.739	- 0.069	- 0.04	3114
584	8 Piscium κ ...	+ 3.0609	0.0000	+ 0.004	- 19.761	- 0.069	+ 0.10	3116
585	Radcliffe 6084 ...	+ 2.4788	+ 0.0489	...	- 19.783	- 0.052	...	...
586	R. P. L. 158 ...	- 0.1201	- 0.5422	+ 0.084	- 19.857	+ 0.011	- 0.00	3147
587	... ..	+ 3.2682	- 0.0372	...	- 19.880	- 0.054	...	...
588	16 Andromedæ λ ...	+ 2.9028	+ 0.0265	+ 0.016	- 19.901	- 0.044	+ 0.43	3143
589	17 Andromedæ ι ...	+ 2.9239	+ 0.0250	+ 0.001	- 19.907	- 0.043	+ 0.01	...
590	0 Phœnicis - 2nd ...	+ 3.2425	- 0.0354	...	- 19.915	- 0.047	...	3144
591	... ..	+ 3.2456	- 0.0368	...	- 19.919	- 0.046	...	...
592	... ..	+ 3.2432	- 0.0364	...	- 19.920	- 0.046	...	...
593	102 Aquarii ω^1 ...	+ 3.1130	- 0.0077	+ 0.002	- 19.921	- 0.044	+ 0.04	3145
594	17 Piscium ϵ ...	+ 3.0590	+ 0.0030	+ 0.023	- 19.923	- 0.042	+ 0.44	3148
595	19 Andromedæ κ ...	+ 2.9306	+ 0.0262	+ 0.007	- 19.930	- 0.042	+ 0.02	3149

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>o</i>	<i>'</i>	<i>"</i>		
596	78 Pegasi	4.9	...	23	37	57.36	61	18	7.6	1	0.76
597	106 Aquarii δ^1	5.3	...	23	37	58.44	108	56	33.3	3	0.77
598	Radcliffe 6184	5.5	1	23	42	10.68	22	51	34.7	1	0.77
599	δ Sculptoris	4.6	...	23	42	40.32	118	47	38.9	1	0.88
600	28 Piscium ω	4.2	...	23	53	8.93	83	48	2.6	7	0.83
601	... ..	10.5	2	23	54	0.44	101	21	23.8	2	0.93
602	τ Phœnicis	5.8	...	23	54	54.44	189	28	40.4	5	0.78
603	Radcliffe 6265	5.5	2	23	55	29.82	29	26	42.7	4	0.79
604	ζ Sculptoris	5.0	...	23	56	10.72	120	23	21.8	1	0.77

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
596	78 Pegasi ...	+ 3.0020	+ 0.0162	+ 0.005	- 19.962	- 0.034	+ 0.03	3160
597	106 Aquarii ¹ ...	+ 3.1163	- 0.0099	+ 0.001	- 19.962	- 0.035	+ 0.01	3159
598	Radcliffe 6184 ...	+ 2.8260	+ 0.0601	- 0.004	- 19.993	- 0.023	+ 0.01	3166
599	δ Sculptoris ...	+ 3.1278	- 0.0161	+ 0.009	- 19.996	- 0.026	+ 0.10	Stone
600	28 Piscium ω ...	+ 3.0679	+ 0.0047	+ 0.009	- 20.045	- 0.005	+ 0.11	3191
601	... ..	+ 3.0793	- 0.0045	...	- 20.048	- 0.003	...	...
602	γ Phœnicis ...	+ 3.1070	- 0.0342	- 0.011	- 20.049	- 0.002	+ 0.04	Stone
603	Radcliffe 6265 ...	+ 3.0257	+ 0.0528	...	- 20.050	0.000	...	...
604	ζ Sculptoris ...	+ 3.0854	- 0.0160	...	- 20.051	+ 0.001	...	...